



Ala	Trp	Val	Gly	Ser	Cys	Ile	His	Ser	Ser	Ala	Gln	Ile	Phe	Leu	Ala
145					150					155					160
Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe	Cys
				165					170					175	
Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Val	Ile
			180					185					190		
Asn	Leu	Leu	Val	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Met	Val	Ser	Phe
		195					200					205			
Thr	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Tyr	Ser	Leu	Arg	Asn
	210					215					220				
His	Ser	Val	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser	His
225					230					235					240
Phe	Ile	Val	Val	Val	Ile	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr	Thr
				245					250					255	
Arg	Pro	Pro	Thr	Thr	Phe	Pro	Ile	Asp	Lys	Met	Val	Ser	Val	Phe	Tyr
			260					265					270		
Thr	Ile	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
		275					280					285			
Ala	Glu	Val	Lys	Ile	Ala	Met	Lys	Lys	Leu	Trp	Cys	Gly	Lys	Val	
	290					295					300				

<210> 1908

<211> 317

<212> PRT

<213> Mus musculus

<400> 1908

Met	Glu	Leu	Tyr	Asn	Leu	Thr	Ser	Asn	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Cys	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
	50					55				60					
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65					70				75					80	
Met	Leu	Ile	Asn	Leu	His	Ala	His	Asn	Arg	Thr	Ile	Thr	Tyr	Ala	Glu
			85					90					95		
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Phe	Leu	Phe	Gly	Cys	Met	Asp	Ser
			100					105					110		
Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	His	Tyr	Gln	Val	Ile	Leu	Asn	Pro	Arg	Leu	Cys	Arg	Tyr	Leu
	130					135					140				
Val	Val	Met	Ser	Phe	Cys	Ile	Ser	Leu	Ile	Asp	Ser	Gln	Val	His	Cys
145					150					155					160
Phe	Met	Val	Ser	Gln	Leu	Lys	Phe	Cys	Thr	Asn	Ile	Lys	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Ser	Ile	Asn	Ser	Ile	Val	Ile	Phe	Leu	Val	Ser	Ile	Ile	Val	Gly	Phe
		195					200					205			
Leu	Pro	Ala	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Ile	Ser	Ser
	210					215						220			
Ile	Val	Arg	Val	Pro	Ser	Ser	Gly	Gly	Lys	Cys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Gly	Leu



<210> 1910  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1910  
 Met Glu Pro Tyr Asn Ser Thr Gly Thr Leu Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Glu Leu Gln Phe Ile Leu Phe Ala Leu Phe Leu  
 20 25 30  
 Leu Ile Tyr Leu Leu Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Cys Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Tyr  
 50 55 60  
 Asn Leu Ser Leu Ala Asp Met Gly Phe Ser Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Ile Asn Leu His Ala His Asn Arg Ser Thr Thr Tyr Ala Glu  
 85 90 95  
 Cys Leu Thr Gln Val Ser Phe Phe Ile Leu Phe Gly Cys Met Asp Ser  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Trp Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Gln Val Ile Leu Asn Pro Cys Arg Cys Arg Tyr Leu  
 130 135 140  
 Val Val Met Ser Phe Cys Ile Ser Leu Ile Asp Ser Gln Val His Cys  
 145 150 155 160  
 Phe Met Val Ser Gln Leu Thr Phe Cys Thr Asn Ile Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Val Pro Glu Leu Val Lys Leu Ala Cys Ser Asn Thr  
 180 185 190  
 Thr Ile Asn Asp Ile Ala Met Phe Leu Ser Ser Ile Ile Thr Gly Phe  
 195 200 205  
 Leu Pro Ala Ser Gly Ile Phe Tyr Ser Tyr Tyr Lys Ile Thr Ser Ser  
 210 215 220  
 Ile Phe Arg Val Pro Ser Leu Leu Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Ile  
 245 250 255  
 Gly Val Tyr Leu Ser Ser Thr Val Ser Ser Ser Ser Lys Glu Ser Met  
 260 265 270  
 Val Ala Ser Val Met Tyr Thr Met Val Val Pro Met Met Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Lys Ala Leu Trp Lys Ile  
 290 295 300  
 Val Cys Lys Ile Thr  
 305

<210> 1911  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1911  
 Met Glu Pro Gly Asn Gln Thr Gly Thr Ser Tyr Phe Ile Leu Met Arg  
 1 5 10 15  
 Leu Asn Tyr Asp Pro Thr Val Glu Pro Leu Ile Phe Gly Phe Phe Met  
 20 25 30  
 Phe Thr Tyr Leu Val Thr Ile Val Gly Asn Leu Leu Ile Ile Ile Ala





Pro	Leu	Arg	Tyr	Asn	Ile	Ile	Met	Asn	Pro	Asn	Leu	Cys	Val	Leu	Leu
	130					135					140				
Ser	Leu	Asn	Ser	Leu	Phe	Ile	Ser	Val	Met	Asp	Ser	Leu	Ile	His	Thr
145					150					155					160
Leu	Met	Val	Gln	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Pro	His
				165						170					175
Phe	Phe	Cys	Glu	Leu	Asp	Gln	Val	Ile	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185						190	
Arg	Ile	Asp	Asn	Ile	Val	Leu	Phe	Val	Ala	Thr	Cys	Val	Phe	Gly	Gly
		195					200					205			
Val	Pro	Leu	Cys	Gly	Ile	Ile	Tyr	Ser	Tyr	Tyr	His	Ile	Met	Ser	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Thr	Ser	Leu	Glu	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Thr	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Gly	Ser
				245					250					255	
Met	Val	Tyr	Ile	Ser	Ser	Ala	Ile	Ser	Ala	Ser	Pro	Gly	Lys	Ser	Ala
			260					265					270		
Val	Ala	Ser	Val	Met	Tyr	Ser	Val	Leu	Pro	Gln	Met	Met	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Ile	Arg	Asn	Leu
	290					295					300				
Phe	Ser	Arg	Thr	Ile	Ser	Leu	Glu								
305					310										

<210> 1913  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1913

Met	Asn	Asn	Met	Glu	Lys	Arg	Asn	Gln	Thr	Thr	Phe	Pro	Gly	Phe	Leu
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Glu	Asp	Pro	Lys	Leu	Gln	Pro	Val	Phe	Val	Ser
			20					25				30			
Leu	Phe	Phe	Ser	Ile	Tyr	Leu	Ile	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile
	35					40					45				
Ile	Leu	Ile	Ser	Ile	Ser	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Leu
	50				55						60				
Phe	Leu	Ser	Asn	Leu	Ser	Leu	Asn	Asp	Ile	Cys	Leu	Ser	Thr	Ser	Thr
65				70					75						80
Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	Lys	Glu	Asn	Ser	Gln	Ser	Ile	Thr
			85						90					95	
Tyr	Lys	Gly	Cys	Leu	Thr	Gln	Met	Ser	Phe	Val	Leu	Ile	Phe	Cys	Gly
		100					105						110		
Met	Glu	Asn	Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Glu	Pro	Cys	Phe	Cys
	130					135					140				
Val	Leu	Leu	Ile	Leu	Leu	Ser	Leu	Leu	Ile	Ser	Val	Val	Asp	Thr	Leu
145				150						155					160
Met	His	Ser	Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	His	Leu	Glu
			165						170					175	
Ile	Ser	Asn	Phe	Ile	Cys	Glu	Leu	Pro	Gln	Ile	Leu	Lys	Leu	Ala	Cys
		180						185					190		
Ser	Asp	Thr	Leu	Ile	Asp	Asn	Ile	Leu	Ile	Tyr	Leu	Ser	Ala	Cys	Ile
	195					200						205			
Phe	Thr	Gly	Ile	Pro	Ile	Ser	Gly	Ile	Val	Phe	Ser	Tyr	Val	His	Ile

210		215		220
Ile Ser Ser Ile Leu Arg Met Ser Ser Leu Glu Gly Lys His Lys Ala				
225		230		235
Phe Thr Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly				240
	245		250	
Thr Ala Phe Gly Val Tyr Ile Thr Ser Ile Ile Met Asp Ser Ser Arg				255
	260		265	
Asn Thr Ala Val Ala Ser Val Met Tyr Ser Val Val Pro Gln Met Leu				270
	275		280	
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Met				285
	290		295	
Gly Lys Phe Phe Ser Arg Met Ala Ser Phe Leu				300
305		310		315

<210> 1914  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1914

Met Asn Asn Met Glu Lys Arg Asn Gln Thr Ala Phe Pro Gly Phe Leu				
1	5		10	15
Leu Leu Gly Leu Thr Glu Asp Pro Lys Leu Gln Pro Val Leu Val Ser				
	20		25	30
Leu Phe Phe Ser Ile Tyr Leu Val Thr Ile Phe Gly Asn Met Leu Ile				
	35		40	45
Val Leu Ile Ser Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Leu				
	50		55	60
Leu Leu Ser Asn Leu Ser Leu Asn Asp Ile Cys Leu Ser Thr Ser Thr				
65	70		75	80
Ile Pro Lys Met Leu Val Asn Ile Gln Glu Asn Ile Gln Ser Ile Thr				
	85		90	95
Tyr Lys Gly Cys Leu Thr Gln Met Asn Phe Val Leu Ile Phe Gly Gly				
	100		105	110
Met Glu Asn Cys Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala				
	115		120	125
Ile Cys His Pro Leu Arg Tyr Thr Val Ile Met Glu Pro Cys Phe Cys				
	130		135	140
Ile Leu Leu Ile Leu Leu Ser Leu Leu Ile Ser Ile Val Asp Ser Leu				
145	150		155	160
Met His Ser Leu Met Val Leu Arg Leu Pro Phe Cys Thr His Leu Glu				
	165		170	175
Ile Pro Ser Phe Phe Cys Glu Leu Pro Lys Met Leu Lys Leu Ala Cys				
	180		185	190
Ser Asp Thr Leu Ile Asp Asn Ile Leu Ile Tyr Ile Ser Ser Cys Ile				
	195		200	205
Phe Ala Gly Ile Pro Leu Ser Gly Ile Val Phe Ser Tyr Ile His Ile				
	210		215	220
Met Ser Ser Ile Leu Arg Met Ser Ser Ser Glu Gly Lys His Lys Ala				
225	230		235	240
Phe Thr Thr Cys Gly Ser His Leu Ser Val Val Phe Leu Phe Tyr Gly				
	245		250	255
Thr Gly Phe Gly Val Tyr Ile Thr Ser Ile Ile Met Asp Ser Ser Arg				
	260		265	270
Lys Thr Ala Val Ala Ser Val Met Tyr Ser Val Val Pro Gln Met Leu				
	275		280	285
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Asp Thr Met				
	290		295	300

Arg Lys Phe Phe Ser Arg Ile Ala Ser Val Leu  
 305 310 315

<210> 1915  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1915  
 Met Glu Val Asp Ser Asn Ser Ser Ser Gly Ser Phe Ile Leu Met Gly  
 1 5 10 15  
 Val Ser Asp His Pro His Leu Glu Ile Phe Phe Ala Val Ile Leu  
 20 25 30  
 Ala Ser Tyr Leu Leu Thr Leu Val Gly Asn Leu Thr Ile Ile Leu Leu  
 35 40 45  
 Ser Arg Leu Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Ser Leu Asp Leu Ala Phe Thr Thr Ser Ser Val Pro Gln  
 65 70 75 80  
 Met Leu Lys Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Gly Gly  
 85 90 95  
 Cys Val Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys  
 100 105 110  
 Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg  
 115 120 125  
 Pro Leu His Tyr Met Thr Val Met Asn Pro Arg Leu Cys Trp Gly Leu  
 130 135 140  
 Ala Ala Ile Ser Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser  
 145 150 155 160  
 Thr Phe Thr Leu Gln Leu Pro Phe Cys Gly His Arg Lys Val Asp Asn  
 165 170 175  
 Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr  
 180 185 190  
 Ser Leu Asn Glu Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Val  
 195 200 205  
 Val Pro Val Ser Val Ile Leu Val Ser Tyr Cys Phe Ile Ala Gln Ala  
 210 215 220  
 Val Met Lys Ile Arg Ser Val Glu Gly Arg Arg Lys Ala Phe Asn Thr  
 225 230 235 240  
 Cys Val Ser His Leu Val Val Val Phe Leu Phe Tyr Gly Ser Ala Ile  
 245 250 255  
 Tyr Gly Tyr Leu Leu Pro Ala Lys Ser Ser Asn Gln Ser Gln Gly Lys  
 260 265 270  
 Phe Ile Ser Leu Phe Tyr Ser Val Val Thr Pro Met Val Asn Pro Leu  
 275 280 285  
 Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Leu  
 290 295 300  
 Leu Gly Lys Gly Arg Gly Ala Ser  
 305 310

<210> 1916  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 1916  
 Met Ala Pro Val Asn Gln Ser Ala Ile Thr Met Phe Ile Leu Gln Asn

1				5					10					15			
Phe	Val	Asp	Asp	Pro	Trp	Ile	Gln	Asp	Val	Leu	Phe	Cys	Leu	Leu	Phe		
			20					25					30				
Ala	Leu	Phe	Met	Ala	Ala	Ile	Ala	Gly	Asn	Gly	Leu	Ile	Ile	Ala	Thr		
		35					40					45					
Ile	His	Ser	Ser	Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Val		
	50					55					60						
Asn	Leu	Ala	Leu	Met	Asp	Met	Ile	Cys	Thr	Val	Thr	Val	Leu	Pro	Lys		
65					70					75					80		
Val	Leu	Gln	Ser	Leu	Val	Ala	Glu	Asn	Ser	Ile	Ser	Tyr	Gly	Gly	Cys		
			85					90					95				
Leu	Ile	Gln	Met	Phe	Val	Phe	Ser	Trp	Val	Leu	Gly	Ser	Glu	Leu	Leu		
			100					105					110				
Leu	Phe	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro		
		115					120					125					
Leu	His	Tyr	Gly	Thr	Leu	Met	Ser	Gly	Arg	Val	Cys	Val	Ala	Leu	Ala		
	130					135					140						
Thr	Phe	Val	Trp	Phe	Ile	Gly	Ala	Leu	Asn	Ser	Leu	Val	Leu	Thr	Cys		
145					150					155					160		
Leu	Val	Leu	Pro	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Leu	Ile	Ala	His	Phe		
			165					170						175			
Phe	Cys	Glu	Ile	Pro	Ser	Val	Leu	Ile	Leu	Ser	Cys	Ser	Pro	Thr	Phe		
		180						185					190				
Ile	Asn	Asn	Val	Met	Thr	Val	Ile	Ala	Asp	Met	Phe	Leu	Thr	Gly	Leu		
		195					200					205					
Asn	Phe	Leu	Leu	Thr	Met	Thr	Ser	Tyr	Val	Phe	Ile	Ile	Ser	Ser	Ile		
	210					215					220						
Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr	Cys		
225					230					235					240		
Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Ala	Leu	Tyr		
			245						250					255			
Thr	Tyr	Val	Arg	Pro	Ala	Leu	Gly	Thr	Ala	Gly	Leu	Leu	Asp	Lys	Val		
		260					265						270				
Ile	Ala	Ile	Pro	Tyr	Thr	Thr	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile		
		275					280					285					
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Thr	Ser	Phe	Lys	Lys	Leu	Leu		
	290					295					300						
Phe	Pro	Arg															
305																	

<210> 1917

<211> 307

<212> PRT

<213> Mus musculus

<400> 1917

Met	Ala	Leu	Val	Asn	Gln	Ser	Val	Val	Thr	Met	Phe	Ile	Leu	Gln	Arg		
1				5					10					15			
Phe	Val	Asp	Asp	Pro	Trp	Ile	Gln	Asp	Val	Leu	Phe	Cys	Leu	Phe	Phe		
		20						25					30				
Ala	Leu	Phe	Met	Ala	Ala	Ile	Ala	Gly	Asn	Gly	Leu	Ile	Ile	Ala	Thr		
		35					40					45					
Ile	His	Ser	Ser	Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Val		
	50					55					60						
Asn	Leu	Ser	Leu	Met	Asp	Val	Ile	Cys	Thr	Val	Thr	Val	Leu	Pro	Lys		
65					70					75					80		
Val	Leu	Gln	Ser	Leu	Val	Ala	Glu	Asn	Ser	Ile	Ser	Tyr	Gly	Gly	Cys		
			85					90					95				

Leu	Thr	Gln	Met	Phe	Val	Phe	Ser	Trp	Val	Leu	Gly	Ser	Glu	Leu	Leu	
			100					105					110			
Leu	Phe	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro	
		115					120					125				
Leu	His	Tyr	Gly	Thr	Leu	Met	Ser	Gly	Lys	Val	Cys	Val	Ala	Leu	Ala	
	130					135					140					
Thr	Phe	Val	Trp	Phe	Thr	Gly	Ala	Leu	Asn	Ser	Leu	Val	Leu	Thr	Cys	
145					150					155					160	
Leu	Met	Leu	Pro	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Thr	His	Phe	
			165						170					175		
Phe	Cys	Glu	Ile	Pro	Ser	Val	Leu	Ile	Leu	Ser	Cys	Ser	Pro	Thr	Phe	
			180					185					190			
Ile	Asn	Asp	Ile	Met	Thr	Val	Ile	Thr	Asp	Met	Phe	Leu	Thr	Gly	Leu	
	195						200					205				
Asn	Phe	Leu	Leu	Thr	Met	Thr	Ser	Tyr	Val	Phe	Ile	Ile	Ala	Ser	Ile	
	210				215						220					
Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr	Cys	
225					230					235					240	
Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Val	Leu	Tyr	
			245						250					255		
Thr	Tyr	Val	Arg	Pro	Ala	Leu	Gly	Thr	Ala	Gly	Phe	Leu	Asp	Lys	Leu	
		260					265						270			
Ile	Ala	Val	Leu	Tyr	Thr	Thr	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	
		275				280						285				
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Ile	Ser	Phe	Lys	Lys	Leu	Leu	
	290					295					300					
Phe	Pro	His														
305																

<210> 1918

<211> 317

<212> PRT

<213> Mus musculus

<400> 1918

Met	Ser	Ser	Lys	Tyr	Leu	Met	Ala	Trp	Ser	Thr	Gly	Gln	Asn	Leu	Ser	
1			5						10					15		
Thr	Pro	Gly	Pro	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Pro	Arg	Ser	Met	
			20					25					30			
Arg	Ile	Gly	Leu	Phe	Leu	Leu	Phe	Leu	Val	Met	Tyr	Leu	Leu	Thr	Val	
		35					40					45				
Ala	Gly	Asn	Leu	Ala	Ile	Ile	Ser	Leu	Val	Gly	Ala	His	Arg	Cys	Leu	
	50					55				60						
Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ser	Phe	Leu	Glu	Ile	
65					70					75				80		
Trp	Phe	Thr	Thr	Ala	Cys	Val	Pro	Lys	Thr	Leu	Ala	Thr	Phe	Ala	Pro	
			85						90					95		
Arg	Gly	Gly	Ala	Ile	Ser	Leu	Ala	Gly	Cys	Ala	Thr	Gln	Met	Tyr	Phe	
			100					105					110			
Val	Phe	Ser	Leu	Gly	Cys	Thr	Glu	Tyr	Phe	Leu	Leu	Ala	Val	Met	Ala	
		115					120					125				
Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Leu	Pro	Leu	Arg	Tyr	Gly	Gly	Ile	
	130					135					140					
Met	Thr	Pro	Gly	Leu	Ala	Thr	Arg	Leu	Ala	Leu	Gly	Ser	Trp	Leu	Cys	
145					150					155					160	
Gly	Phe	Ser	Ala	Ile	Ile	Val	Pro	Ala	Ala	Leu	Ile	Ala	Arg	Leu	Ser	
			165						170					175		
Phe	Cys	Gly	Ser	Arg	Val	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Ser	Pro	

			180					185				190					
Trp	Ile	Val	Leu	Ser	Cys	Thr	Asp	Thr	Gln	Val	Val	Glu	Leu	Val	Ser		
		195					200					205					
Phe	Gly	Ile	Ala	Phe	Cys	Val	Ile	Leu	Gly	Ser	Cys	Gly	Ile	Thr	Leu		
	210					215					220						
Val	Ser	Tyr	Ala	Tyr	Ile	Ile	Thr	Thr	Ile	Ile	Lys	Ile	Pro	Ser	Ala		
225					230					235					240		
Gln	Gly	Arg	His	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val		
			245						250					255			
Val	Leu	Ile	Trp	Tyr	Gly	Ser	Thr	Ile	Phe	Leu	His	Val	Arg	Thr	Ser		
		260					265					270					
Val	Glu	Ser	Ser	Leu	Asp	Leu	Thr	Lys	Ala	Val	Thr	Val	Leu	Asn	Thr		
	275						280					285					
Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys		
	290					295					300						
Asp	Val	Lys	Glu	Ala	Leu	Arg	Arg	Thr	Met	Lys	Gly	Lys					
305					310					315							

<210> 1919

<211> 313

<212> PRT

<213> Mus musculus

<400> 1919

Met	Ser	Lys	Gly	Arg	Glu	Asn	Glu	Thr	Gly	Val	Ser	Glu	Phe	Leu	Leu		
1				5					10					15			
Leu	Gly	Ile	Thr	Asn	Asp	Pro	Gln	Gln	Gln	Gln	Ile	Leu	Phe	Trp	Ala		
			20				25						30				
Phe	Leu	Cys	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Thr	Leu	Ile	Phe		
	35						40					45					
Leu	Ala	Ile	Ile	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe		
	50					55					60						
Leu	Ala	Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Thr	Thr	Asn	Leu	Ile		
65					70					75					80		
Pro	Arg	Leu	Leu	Ala	Gly	His	Val	Ala	Gly	Thr	Arg	Thr	Ile	Ser	Tyr		
			85						90					95			
Val	His	Cys	Leu	Thr	Gln	Thr	Tyr	Phe	Leu	Ile	Ser	Phe	Ala	Asn	Val		
			100					105					110				
Asp	Thr	Phe	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Phe	Val	Ala	Ile		
		115					120					125					
Cys	Tyr	Pro	Leu	Gln	Tyr	His	Thr	Ile	Ile	Thr	Pro	Gln	Leu	Cys	Val		
	130					135					140						
Gly	Leu	Ala	Ala	Val	Val	Trp	Met	Cys	Ser	Ala	Leu	Ile	Ser	Leu	Met		
145					150					155					160		
His	Thr	Leu	Leu	Met	Ser	Arg	Leu	Ser	Phe	Cys	Ser	Ser	Ile	Pro	Glu		
				165					170					175			
Ile	Ser	His	Phe	Tyr	Cys	Asp	Ala	Tyr	Leu	Leu	Met	Lys	Leu	Ala	Cys		
			180					185					190				
Ser	Asp	Thr	Arg	Val	Asn	Gln	Leu	Val	Phe	Leu	Gly	Ala	Val	Val	Leu		
		195				200						205					
Phe	Val	Ala	Pro	Cys	Ile	Leu	Ile	Val	Val	Ser	Tyr	Val	Arg	Ile	Thr		
	210					215					220						
Met	Val	Val	Leu	Gln	Ile	Pro	Ser	Ala	Lys	Gly	Arg	His	Lys	Thr	Phe		
225					230					235					240		
Ser	Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr		
				245					250					255			
Val	Leu	Gly	Ile	Tyr	Ile	Arg	Pro	Pro	Asp	Ser	Phe	Ser	Thr	Gln	Asp		
			260					265						270			

Thr	Val	Ala	Thr	Ile	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275						280				285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Ser	Val	Thr	Arg
	290					295					300				
Leu	Leu	Asn	Arg	Gly	Ser	Lys	Ser	Ser							
305					310										

<210> 1920  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 1920

Met	Ser	Lys	Gly	Arg	Glu	Asn	Glu	Thr	Gly	Val	Ser	Glu	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Ile	Thr	Asn	Asp	Pro	Gln	Gln	Gln	Gln	Ile	Leu	Phe	Trp	Ala
			20				25						30		
Phe	Leu	Cys	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Thr	Leu	Ile	Phe
	35					40					45				
Leu	Ala	Ile	Ile	Ser	Asp	Pro	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ala	Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Thr	Thr	Asn	Leu	Ile
65					70				75						80
Pro	Arg	Leu	Leu	Ala	Gly	His	Val	Ala	Gly	Thr	Arg	Thr	Ile	Ser	Tyr
				85					90					95	
Ala	Gln	Cys	Leu	Thr	Gln	Met	Phe	Phe	Met	Ile	Ser	Phe	Ala	His	Val
			100					105					110		
Asp	Thr	Leu	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Gln	Tyr	His	Thr	Ile	Ile	Thr	Pro	Gln	Leu	Cys	Val
	130					135					140				
Gly	Leu	Ala	Ala	Val	Val	Trp	Met	Cys	Ser	Ala	Leu	Ile	Ser	Leu	Met
145					150				155						160
His	Thr	Leu	Leu	Met	Ser	Arg	Leu	Arg	Phe	Cys	Ser	Ser	Ile	Pro	Glu
				165					170					175	
Ile	Ser	His	Phe	Tyr	Cys	Asp	Ala	Tyr	Leu	Leu	Met	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Asp	Thr	Arg	Val	Asn	Gln	Leu	Ala	Ser	Leu	Gly	Thr	Leu	Phe	Leu
		195				200						205			
Phe	Val	Ala	Pro	Cys	Ile	Leu	Ile	Val	Val	Ser	Tyr	Val	Arg	Ile	Thr
	210					215					220				
Met	Ala	Val	Phe	Gln	Ile	Pro	Ser	Ala	Lys	Gly	Arg	His	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr
			245						250					255	
Ile	Leu	Gly	Ile	Tyr	Ile	Arg	Pro	Pro	Gly	Ser	Phe	Ser	Ile	Gln	Val
		260						265					270		
Ser	Val	Ala	Thr	Ile	Met	Tyr	Thr	Val	Phe	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Thr	Val	Thr	Arg
	290					295					300				
Ile	Leu	Asn	Arg	Asp	Ser	Lys	Pro	Ser							
305					310										

<210> 1921  
 <211> 305  
 <212> PRT



<213> Mus musculus

<400> 1921

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Met Asn Cys Ser Gln Ala Pro Thr Leu Ile Leu Leu Gly Leu Ser Ser
 1      5      10      15
Asp Ala Glu Lys Trp Gln Pro Leu Phe Ser Ile Phe Leu Val Ile Tyr
 20      25      30
Leu Leu Gly Leu Leu Gly Asn Leu Leu Leu Leu Ala Ile Gly Thr
 35      40      45
Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Gln Leu Ser
 50      55      60
Phe Val Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu
 65      70      75      80
Ala Leu Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr
 85      90      95
Gln Leu Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Leu
100      105      110
Ala Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Arg
115      120      125
Tyr Ser Ala Leu Met Thr Pro Phe Arg Cys Gly Val Leu Val Ser Gly
130      135      140
Ser Trp Gly Val Thr Asn Cys Val Ser Leu Thr His Thr Leu Leu Leu
145      150      155      160
Ser Lys Leu Tyr Phe His Thr Asn Gln Glu Ile Pro His Phe Phe Cys
165      170      175
Glu Phe Gly Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr His Leu Asn
180      185      190
Lys Ile Leu Val Ile Ile Leu Val Gly Ile Leu Gly Ile Ser Ala Val
195      200      205
Leu Cys Ile Val Ser Ser Tyr Gly Cys Ile Phe Tyr Ala Val Ala Lys
210      215      220
Val Pro Ser Ala Gln Gly Lys Arg Lys Ala Leu Ser Thr Cys Ser Ser
225      230      235      240
His Leu Ser Val Val Leu Leu Phe Tyr Ser Thr Val Phe Ala Thr Tyr
245      250      255
Leu Lys Pro Pro Ser Ser Ser Arg Ser Ser Glu Glu Val Val Ala Ala
260      265      270
Val Met Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Ser
275      280      285
Leu Arg Asn Lys Asp Val Lys Ser Ser Leu Arg Arg Ile Leu Asn Met
290      295      300
Glu
305
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<210> 1922

<211> 313

<212> PRT

<213> Mus musculus

<400> 1922

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Met Gly Ile Leu Ser Thr Gly Asn Gln Thr Val Thr Glu Phe Val Leu
 1      5      10      15
Leu Gly Phe His Glu Val Pro Gly Leu His Leu Leu Phe Phe Ser Val
 20      25      30
Phe Thr Ile Leu Tyr Ala Ser Ile Ile Thr Gly Asn Met Leu Ile Ala
 35      40      45
Val Val Val Val Ser Ser Gln Arg Leu His Thr Pro Met Tyr Phe Phe
 50      55      60
```

Leu	Val	Asn	Leu	Ser	Phe	Ile	Glu	Ile	Val	Tyr	Thr	Ser	Thr	Val	Val
65					70					75					80
Pro	Lys	Met	Leu	Glu	Gly	Phe	Leu	Gln	Glu	Ala	Thr	Ile	Ser	Val	Ala
			85						90					95	
Gly	Cys	Leu	Leu	Gln	Phe	Phe	Val	Phe	Gly	Ser	Leu	Ala	Thr	Asp	Glu
		100						105					110		
Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	Arg	Tyr	Pro	His	Leu	Met	Gly	Pro	Gln	Trp	Cys	Leu	Gly
	130					135					140				
Leu	Val	Leu	Thr	Val	Trp	Leu	Ser	Gly	Phe	Met	Val	Asp	Gly	Leu	Val
145					150					155					160
Val	Ala	Leu	Met	Ala	Gln	Leu	Arg	Phe	Cys	Gly	Pro	Asn	Leu	Val	Asp
				165					170					175	
His	Phe	Tyr	Cys	Asp	Phe	Ser	Pro	Leu	Met	Val	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Thr	Gln	Val	Ala	Gln	Val	Thr	Thr	Phe	Val	Leu	Ser	Val	Val	Phe	Leu
		195					200					205			
Thr	Val	Pro	Phe	Gly	Leu	Val	Leu	Ile	Ser	Tyr	Ala	Gln	Ile	Val	Val
	210					215					220				
Thr	Val	Leu	Arg	Val	Pro	Ser	Gly	Thr	Arg	Arg	Thr	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Ala	Val	Val	Ser	Thr	Phe	Tyr	Gly	Thr	Leu
				245					250					255	
Met	Val	Leu	Tyr	Ile	Val	Pro	Ser	Ala	Val	His	Ser	Gln	Leu	Leu	Ser
			260					265					270		
Lys	Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val	Val	Thr	Pro	Ile	Phe	Asn	Pro
		275					280					285			
Val	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Gln	Gln	Ala	Leu	Arg	Arg
	290					295					300				
Leu	Leu	Tyr	Cys	Lys	Pro	Thr	Glu	Met							
305					310										

<210> 1923

<211> 312

<212> PRT

<213> Mus musculus

<400> 1923

Met	Gly	Thr	Asn	Ser	Ser	Leu	Val	Thr	Glu	Phe	Val	Leu	Val	Gly	Phe
1				5					10					15	
Ser	Arg	Leu	Val	His	Leu	Gln	Gly	Ile	Leu	Phe	Ser	Leu	Phe	Leu	Thr
			20					25					30		
Val	Tyr	Leu	Leu	Thr	Val	Ala	Gly	Asn	Leu	Leu	Ile	Val	Ala	Leu	Val
		35					40					45			
Ser	Thr	Asp	Ala	Ala	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Ile
	50					55				60					
Leu	Ser	Ala	Leu	Glu	Ile	Cys	Tyr	Thr	Ser	Val	Thr	Val	Pro	Leu	Leu
65					70					75					80
Leu	His	His	Leu	Leu	Thr	Gly	Arg	Arg	His	Ile	Ser	Arg	Ser	Gly	Cys
				85					90					95	
Ala	Leu	Gln	Met	Phe	Phe	Phe	Leu	Phe	Phe	Gly	Ala	Thr	Glu	Cys	Cys
			100					105					110		
Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Glu	Pro
		115					120					125			
Leu	Arg	Tyr	Gln	Val	Leu	Leu	Ser	Arg	Arg	Val	Cys	Val	Gln	Leu	Ala
	130					135					140				
Gly	Ala	Ala	Trp	Ser	Cys	Gly	Ala	Leu	Val	Gly	Leu	Gly	His	Thr	Ser

145					150					155				160
Phe	Ile	Phe	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ala	Val	Pro	His Phe
				165					170					175
Phe	Cys	Glu	Ile	Gln	Pro	Val	Leu	Gln	Leu	Val	Cys	Gly	Asp	Thr Ser
			180					185					190	
Leu	Asn	Glu	Leu	Gln	Ile	Ile	Leu	Ala	Ala	Ala	Leu	Ile	Ile	Leu Cys
		195					200					205		
Pro	Phe	Gly	Leu	Ile	Leu	Ser	Ser	Tyr	Gly	Arg	Ile	Leu	Val	Thr Ile
	210					215					220			
Phe	Arg	Ile	Pro	Ser	Ala	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr Cys
225					230					235				240
Ser	Ser	His	Leu	Val	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ala	Ile Phe
			245						250					255
Ile	Tyr	Ile	Arg	Pro	Lys	Ala	Ser	Tyr	Asp	Pro	Thr	Thr	Asp	Pro Leu
		260						265					270	
Leu	Ser	Leu	Phe	Tyr	Ala	Val	Ile	Thr	Pro	Ile	Leu	Asn	Pro	Val Ile
		275					280					285		
Tyr	Ser	Leu	Arg	Asn	Ala	Asp	Val	Lys	Ala	Ala	Leu	Lys	Arg	Ser Ile
	290					295					300			
Gln	Lys	Met	Gly	Pro	Ser	Glu	Ile							
305					310									

<210> 1924

<211> 310

<212> PRT

<213> Mus musculus

<400> 1924

Met	Met	Asn	Cys	Ser	Gln	Ala	Pro	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Ser
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Ser	Asn	Ser	Glu	Lys	Trp	Gln	Pro	Leu	Phe	Ser	Ile	Phe	Leu	Val	Leu
			20					25					30		
Tyr	Leu	Leu	Gly	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Leu	Ala	Ile	Gly
		35					40						45		
Thr	Asp	Val	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Val	Asp	Leu	Cys	Phe	Ile	Thr	Thr	Thr	Ala	Pro	Lys	Met	Leu
65					70					75					80
Glu	Thr	Leu	Trp	Thr	Gly	Asp	Gly	Ser	Ile	Ser	Phe	Ser	Gly	Cys	Leu
			85						90					95	
Thr	Gln	Leu	Tyr	Phe	Phe	Ala	Val	Phe	Ala	Asp	Met	Asp	Asn	Leu	Leu
			100					105					110		
Leu	Ala	Val	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Leu	Tyr	Pro	Leu	Leu	Met	Thr	Pro	Cys	Arg	Cys	Arg	Val	Leu	Val	Ser
	130					135					140				
Gly	Ser	Trp	Gly	Val	Ala	His	Cys	Val	Ser	Leu	Thr	His	Ile	Leu	Leu
145					150					155					160
Leu	Ser	Gln	Leu	Tyr	Phe	His	Thr	Asn	Gln	Glu	Ile	Pro	His	Phe	Phe
			165						170					175	
Cys	Asp	Phe	Gly	Pro	Leu	Leu	Leu	Leu	Ser	Cys	Ser	Asp	Ala	His	Leu
			180					185					190		
Asn	Glu	Ser	Leu	Met	Met	Ala	Leu	Ala	Gly	Val	Leu	Gly	Ile	Ser	Ala
		195					200						205		
Leu	Leu	Cys	Ile	Val	Ser	Ser	Tyr	Gly	Cys	Ile	Phe	Tyr	Ala	Val	Ala
	210					215					220				
Lys	Val	Pro	Ser	Ala	Gln	Gly	Lys	Arg	Lys	Ala	Leu	Ala	Thr	Cys	Ser
225					230					235					240



<210> 1926  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1926  
 Met Asn Cys Ser Gln Ala Pro Thr Phe Ile Leu Leu Gly Leu Ser Ser  
 1 5 10 15  
 Asp Ala Glu Lys Trp Gln Pro Leu Phe Ser Ile Phe Leu Val Leu Tyr  
 20 25 30  
 Leu Leu Gly Leu Leu Gly Asn Leu Leu Leu Leu Ala Ile Gly Thr  
 35 40 45  
 Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Gln Leu Ser  
 50 55 60  
 Leu Val Asp Leu Cys Phe Ile Thr Thr Thr Ala Pro Lys Met Leu Glu  
 65 70 75 80  
 Ala Leu Trp Thr Gly Asp Gly Ser Ile Ser Phe Ser Gly Cys Leu Thr  
 85 90 95  
 Gln Leu Tyr Phe Phe Ala Val Phe Ala Asp Met Asp Asn Leu Leu Leu  
 100 105 110  
 Ala Val Met Ala Ile Asp Arg Tyr Ala Ala Ile Cys His Pro Leu Leu  
 115 120 125  
 Tyr Pro Leu Leu Met Thr Pro Cys Arg Cys Arg Val Leu Val Ser Gly  
 130 135 140  
 Ser Trp Gly Val Ala His Cys Val Ser Leu Thr His Thr Leu Leu Phe  
 145 150 155 160  
 Ser Lys Leu Tyr Phe His Asn Asn Gln Glu Ile Pro His Phe Phe Cys  
 165 170 175  
 Asp Phe Gly Pro Leu Leu Leu Leu Ser Cys Ser Asp Thr Tyr Leu Asn  
 180 185 190  
 Glu Ser Leu Met Met Ala Leu Ser Gly Leu Leu Ala Ile Ser Ala Phe  
 195 200 205  
 Leu Cys Ile Val Ser Ser Tyr Gly Cys Ile Phe Tyr Ala Val Ala Lys  
 210 215 220  
 Val Pro Ser Ala Gln Gly Lys Arg Lys Ala Leu Ala Thr Cys Ser Ser  
 225 230 235 240  
 His Leu Ser Val Val Leu Leu Phe Tyr Ser Thr Val Phe Ala Thr Tyr  
 245 250 255  
 Leu Lys Pro Pro Ser Ser Ser His Ser Ser Gln Glu Val Val Ala Ala  
 260 265 270  
 Val Met Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Phe Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Asp Val Lys Ser Ser Leu Arg Arg Ile Leu Asn Met  
 290 295 300  
 Val Lys Ser Gln Asp  
 305

<210> 1927  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1927  
 Met Ser Gly Val Ser Glu Asn Gln Thr Thr Trp Leu Thr Leu Val Gly  
 1 5 10 15  
 Phe Gly Lys Leu Lys His Leu Gly Phe Leu Pro Phe Ala Leu Phe Leu  
 20 25 30

Ala	Ile	Tyr	Val	Ala	Thr	Val	Gly	Gly	Asn	Ile	Leu	Ile	Val	Leu	Ala
		35					40					45			
Val	Ala	Ser	Ser	Arg	Thr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Phe	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Ser	Asn	Ile	Val	Pro	Arg
65					70					75				80	
Leu	Leu	Gln	Ser	Phe	Leu	Glu	Gly	Gly	Asp	Leu	Ile	Ser	Leu	Val	Gly
				85					90					95	
Cys	Leu	Ala	Gln	Phe	Tyr	Val	Phe	Ala	Ser	Leu	Ala	Ala	Ala	Glu	Cys
			100					105					110		
Leu	Met	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Ser	Thr	Trp	Cys	Cys	Val	Arg	Leu
	130					135					140				
Ala	Thr	Gly	Ala	Trp	Phe	Ser	Gly	Phe	Phe	Phe	Ser	Ala	Phe	Thr	Leu
145					150					155					160
Ala	Leu	Ala	Ala	Pro	Leu	Ser	Leu	Cys	Pro	Gly	Arg	Arg	Val	Ile	Asp
				165					170					175	
His	Tyr	Phe	Cys	Asp	Phe	Ala	Pro	Val	Val	Gly	Leu	Phe	Cys	Gly	Glu
			180					185					190		
Val	Trp	Val	Met	Trp	Gly	Ala	Gly	Val	Ser	Ile	Ser	Gly	Cys	Leu	Thr
		195					200					205			
Leu	Ala	Pro	Phe	Leu	Leu	Ile	Val	Ala	Ser	Tyr	Val	Phe	Ile	Leu	Arg
	210					215					220				
Ala	Val	Leu	Arg	Ile	Pro	Ser	Ser	His	Gly	Arg	Gln	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val	Ala	Val	Phe	Tyr	Gly	Thr	Leu
				245					250					255	
Ile	Val	Val	Tyr	Val	Ala	Pro	Thr	Glu	His	Met	Pro	Ala	Leu	Leu	Arg
			260					265					270		
Lys	Ala	Phe	Ser	Val	Phe	Tyr	Thr	Val	Leu	Thr	Pro	Met	Phe	Asn	Pro
		275					280					285			
Ile	Ile	Tyr	Ser	Leu	Lys	Asn	Gln	Glu	Val	Lys	Trp	Ala	Leu	Arg	Arg
	290					295					300				
Leu	Cys	Arg	Gln	Leu	Leu										
305					310										

<210> 1928

<211> 311

<212> PRT

<213> Mus musculus

<400> 1928

Met	Arg	Asn	Arg	Ser	Val	Val	Thr	Gln	Phe	Ile	Leu	Leu	Gly	Ile	Pro
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Asn	Thr	Glu	Gly	Leu	Glu	Thr	Met	Leu	Phe	Val	Leu	Phe	Leu	Ser	Phe
			20					25					30		
Tyr	Ile	Phe	Thr	Leu	Met	Gly	Asn	Leu	Leu	Ile	Leu	Leu	Ala	Ile	Ile
		35					40					45			
Ser	Ser	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Lys	Leu
	50					55				60					
Ser	Ile	Phe	Asp	Ile	Phe	Phe	Pro	Ser	Val	Ser	Ser	Pro	Lys	Met	Leu
65					70					75				80	
Phe	Tyr	Leu	Ser	Gly	Asn	Ser	Arg	Ala	Ile	Ser	Tyr	Ala	Gly	Cys	Val
				85					90					95	
Ser	Gln	Leu	Phe	Phe	Tyr	His	Phe	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Tyr	Pro	Leu

Arg	Tyr	Ser	Ile	Ile	Met	Ser	His	Arg	Val	Cys	Ala	Ile	Leu	Ala	Thr
	130					135					140				
Gly	Thr	Ser	Phe	Phe	Gly	Cys	Ile	Gln	Ala	Thr	Phe	Leu	Thr	Thr	Leu
145					150					155					160
Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Tyr	Tyr	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Val	Met	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Ala
			180					185					190		
Leu	Glu	Met	Val	Gly	Phe	Ile	Ser	Val	Gly	Leu	Met	Pro	Leu	Ser	Cys
		195					200					205			
Phe	Leu	Leu	Ile	Leu	Thr	Ser	Tyr	Ser	Cys	Ile	Val	Cys	Ser	Ile	Leu
	210					215					220				
Gln	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ala	His	Leu	Thr	Ala	Ile	Leu	Leu	Phe	Tyr	Met	Pro	Val	Val	Leu	Ile
				245					250					255	
Tyr	Leu	Arg	Pro	Thr	Pro	Ser	Pro	Trp	Leu	Asp	Ala	Thr	Val	Gln	Val
			260					265					270		
Leu	Asn	Asn	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Arg	Asn	Lys	Glu	Val	Lys	Ala	Ser	Leu	Trp	Lys	Val	Leu	Arg	Lys	Pro
	290					295					300				
Ala	Phe	Ala	Pro	Glu	Gln	Leu									
305					310										

<210> 1929

<211> 311

<212> PRT

<213> Mus musculus

<400> 1929

Met	Ala	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Glu	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Leu	Ser	Glu	Lys	Pro	Glu	Phe	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Leu	Ile	Thr	Val	Thr	Gly	Asn	Val	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Val	Arg
	50					55				60					
Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Met	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly
				85					90					95	
Cys	Met	Val	Gln	Leu	Tyr	Phe	Phe	Phe	Ile	Phe	Gly	Ile	Ala	Glu	Cys
			100					105					110		
Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Asn	Ser	Leu
	130					135					140				
Ile	Ser	Gly	Ser	Tyr	Ile	Phe	Ala	Val	Val	Cys	Ser	Ser	Leu	Ile	Thr
145					150					155				160	
Gly	Phe	Met	Phe	Arg	Ile	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Asn	Leu	Ala	Ser	Ser	Asn	Ile
			180					185					190		
Tyr	Ile	Asn	Glu	Ile	Leu	Ile	Leu	Val	Ile	Ala	Thr	Leu	Asn	Val	Phe
	195						200					205			

Ile	Pro	Val	Met	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Thr
	210					215					220				
Ile	Leu	Tyr	Ile	His	Ser	Ser	Glu	Gly	Lys	Phe	Lys	Gly	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Thr	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly	Ser	Gly	Ala
				245					250					255	
Phe	Thr	Tyr	Leu	Gln	Pro	Ser	Leu	Leu	Asn	Ser	Met	Gly	Gln	Ala	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Cys	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Phe
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ser	Phe	Ala	Leu	Lys	Lys	Ile
	290					295					300				
Phe	Glu	Arg	Lys	Lys	Phe	Met									
305					310										

<210> 1930

<211> 319

<212> PRT

<213> Mus musculus

<400> 1930

Met	Glu	Asp	Met	Thr	Ser	Gly	Asn	Asn	Cys	Thr	Val	Ser	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Glu	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Val	Val	Gly	Asn	Leu	Gly	Met
			35				40					45			
Ile	Thr	Leu	Ile	Gly	Ile	Ser	Ser	His	Leu	His	Thr	Ala	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Met	Leu	Val	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Ile	Ile	Ser
			85						90					95	
Tyr	Leu	Gly	Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Ile	Phe	Gly	Ala
			100					105					110		
Ala	Glu	Cys	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Ser	Tyr	Gln	Val	Tyr
	130					135					140				
Ser	Ser	Leu	Ile	Ser	Gly	Val	Tyr	Ile	Tyr	Ala	Val	Phe	Cys	Ala	Ser
145					150					155					160
Val	His	Thr	Gly	Val	Leu	Thr	Arg	Ile	Gln	Phe	Cys	Lys	Leu	Asp	Val
			165						170					175	
Ile	Asn	His	Tyr	Phe	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Asn	Thr	Tyr	Ile	Asp	Glu	Met	Leu	Ile	Leu	Phe	Phe	Gly	Thr	Leu
		195					200						205		
Asn	Ile	Phe	Ala	Pro	Thr	Leu	Ile	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile
	210					215						220			
Ile	Ala	Ser	Ile	Phe	His	Ile	Arg	Ser	Arg	Glu	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly
			245						250					255	
Ser	Ala	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Arg	Val	Asn	Ser	Met	Asp
			260					265					270		
Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Thr	Val	Ala	Leu



290		295		300
Lys Lys Ile Leu Glu Arg	Lys Asn Phe Met Trp	Ser Glu Val Thr		
305	310	315		

<210> 1931  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1931

Met	Asp	Asn	Tyr	Thr	Leu	Leu	Asn	Glu	Phe	Ile	Leu	Leu	Gly	Ile	Pro
1				5					10					15	
Gln	Thr	Gln	Gly	Leu	Glu	Thr	Leu	Leu	Phe	Val	Val	Phe	Leu	Phe	Ile
			20					25					30		
Tyr	Phe	Phe	Thr	Leu	Leu	Gly	Asn	Ser	Leu	Ile	Phe	Thr	Ala	Ile	Ile
		35					40					45			
Ser	Ser	Ser	Thr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Leu	Leu
		50				55					60				
Ser	Val	Phe	Asp	Met	Leu	Phe	Pro	Ser	Val	Thr	Cys	Pro	Lys	Met	Leu
65					70					75					80
Phe	Tyr	Leu	Ser	Val	Arg	Ser	Pro	Ala	Ile	Ser	Tyr	Lys	Gly	Cys	Ala
				85					90					95	
Ala	Gln	Leu	Phe	Thr	His	Leu	Leu	Gly	Ser	Thr	Glu	Gly	Cys	Leu	
			100				105					110			
Tyr	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Arg	Tyr	Met	Leu	Ile	Met	Lys	Pro	Gly	Val	Cys	Val	Ser	Leu	Val	Ile
		130				135					140				
Ile	Ala	Trp	Leu	Val	Gly	Cys	Leu	His	Ala	Thr	Ile	Leu	Thr	Ser	Leu
145					150					155					160
Thr	Phe	Gln	Leu	Val	Tyr	Cys	Ala	Ser	Asn	Gln	Val	Asp	Tyr	Phe	Phe
				165					170					175	
Cys	Asp	Leu	Pro	Ala	Val	Leu	Pro	Leu	Ala	Cys	Thr	Asp	Ser	Lys	Leu
			180					185					190		
Ala	Arg	Lys	Val	Gly	Ser	Ile	Asn	Val	Gly	Phe	Leu	Ala	Leu	Met	Leu
		195					200					205			
Leu	Phe	Ser	Val	Cys	Val	Ser	Tyr	Val	His	Ile	Gly	Val	Ala	Ile	Leu
		210				215					220				
Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ala	His	Leu	Thr	Ala	Ile	Leu	Cys	Ala	Tyr	Gly	Pro	Val	Ile	Ile	Ile
				245					250					255	
Tyr	Leu	Gln	Arg	Thr	Pro	Asn	Pro	Leu	Leu	Gly	Ala	Val	Val	Gln	Ile
			260					265					270		
Leu	Asn	Asn	Ile	Val	Ser	Pro	Met	Leu	Asn	Ser	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Arg	Asn	Lys	Glu	Val	Lys	Arg	Ser	Leu	Arg	Arg	Val	Phe	Gln	Asn	Ile
		290				295					300				
Thr	Phe	His	Gly	Gln	Lys										
305					310										

<210> 1932  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1932

Met	Thr	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Thr	Leu	Leu	Gly	Ile	Pro
1				5					10					15	
Glu	Thr	Glu	Gly	Leu	Glu	Asn	Ala	Leu	Leu	Phe	Leu	Phe	Ser	Thr	Met
			20					25					30		
Tyr	Ala	Cys	Ala	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Leu	Thr	Ala	Ile	Thr
		35					40					45			
Thr	Ser	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Ile	Phe	Asp	Leu	Gly	Phe	Cys	Ser	Thr	Thr	Ala	Pro	Lys	Met	Leu
65				70						75				80	
Ser	Tyr	Leu	Ser	Gly	Trp	Gly	Gly	Gly	Ile	Ser	Phe	Gln	Gly	Cys	Val
			85						90				95		
Val	Gln	His	Phe	Phe	Tyr	His	Cys	Leu	Gly	Cys	Thr	Leu	Cys	Phe	Leu
			100					105					110		
Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Phe	Pro	Leu
		115					120					125			
Arg	Tyr	Thr	Ile	Ile	Met	Asn	His	Arg	Val	Cys	Cys	Val	Leu	Ala	Thr
	130					135						140			
Gly	Thr	Trp	Met	Ser	Gly	Cys	Val	His	Ala	Thr	Ile	Leu	Thr	Ser	Leu
145				150						155					160
Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Glu	Val	Ser	Tyr	Tyr	Phe
			165						170					175	
Cys	Asp	Met	Pro	Ala	Val	Leu	Leu	Leu	Ala	Cys	Glu	Asp	Ser	Ser	Leu
			180					185					190		
Ala	Gln	Arg	Val	Gly	Phe	Thr	Asn	Val	Gly	Leu	Leu	Ser	Leu	Ile	Cys
		195					200					205			
Phe	Phe	Leu	Ile	Ile	Val	Ser	Tyr	Thr	Arg	Ile	Gly	Ile	Ser	Ile	Ser
	210					215					220				
Lys	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ala	His	Leu	Thr	Ala	Ile	Met	Cys	Val	Tyr	Gly	Pro	Val	Ile	Val	Ile
			245							250				255	
Tyr	Leu	Gln	Pro	Asn	Pro	Ser	Pro	Leu	Leu	Ser	Ala	Ile	Ile	Gln	Ile
			260					265					270		
Leu	His	Asn	Leu	Val	Thr	Pro	Thr	Ile	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Leu	Arg	His	Val	Phe	Leu	Lys	Arg
	290					295					300				
Cys	Leu	Ser	Leu	Glu	Val	Asn	Glu	Asn	Ser						
305					310										

<210> 1933

<211> 314

<212> PRT

<213> Mus musculus

<400> 1933

Met	Glu	Glu	Leu	Asn	His	Thr	Pro	Val	Ala	Glu	Phe	Ile	Leu	Ala	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe	Leu
			20					25					30		
Ser	Val	Tyr	Leu	Phe	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu
		35					40					45			
Ile	Leu	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Cys	Cys	Gln	Ser	Thr	Val	Ile	Val	Pro	Lys
65				70						75				80	
Met	Leu	Leu	Asn	Phe	Val	Thr	Glu	Lys	Asn	Val	Ile	Leu	Tyr	Pro	Glu

				85					90					95			
Cys	Ile	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Thr	Phe	Val	Val	Ala	Lys	Cys		
			100					105					110				
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn		
		115					120					125					
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Leu	Leu	Met		
		130				135					140						
Val	Ala	Val	Val	Tyr	Gly	Ile	Gly	Leu	Ile	Ser	Ala	Thr	Ala	His	Thr		
145					150					155					160		
Val	Phe	Leu	Leu	Arg	Leu	Phe	Phe	Cys	Lys	Ala	Asp	Lys	Ile	Asn	His		
				165					170					175			
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Thr		
			180					185					190				
Phe	Ile	Asn	Glu	Ile	Leu	Ala	Leu	Ser	Phe	Ser	Ala	Phe	Asn	Ile	Ile		
		195					200					205					
Val	Pro	Ala	Met	Thr	Ile	Ile	Gly	Ser	Tyr	Ile	Phe	Ile	Ile	Ile	Ser		
	210					215					220						
Ile	Leu	His	Ile	Lys	Ser	Ser	Gly	Gly	Arg	Val	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		
Tyr	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Thr	Thr		
			245						250					255			
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Trp	Lys		
			260					265					270				
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Val	Leu	Asn	Leu	Met		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Lys	Met	Leu		
	290					295					300						
Leu	Gln	Lys	Met	Phe	Pro	Gln	Asn	Lys	Glu								
305					310												

<210> 1934

<211> 310

<212> PRT

<213> Mus musculus

<400> 1934

Met	Ser	Asn	Tyr	Thr	Gly	Gln	Phe	Ser	Asp	Phe	Thr	Leu	Val	Gly	Phe		
1				5					10					15			
Phe	Ser	Gln	Ser	Lys	His	Pro	Ala	Leu	Leu	Ala	Val	Val	Ile	Phe	Val		
			20					25					30				
Val	Phe	Leu	Met	Ala	Leu	Ser	Gly	Asn	Thr	Leu	Leu	Ile	Leu	Leu	Ile		
		35					40					45					
Leu	Ser	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln		
		50				55					60						
Leu	Ser	Leu	Met	Asp	Met	Met	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met		
65					70					75					80		
Leu	Met	Asp	Gln	Val	Leu	Gly	Asn	His	Lys	Ile	Ser	Ala	Ala	Ala	Cys		
			85						90					95			
Gly	Met	Gln	Met	Phe	Leu	Tyr	Leu	Ser	Ile	Gly	Gly	Ser	Glu	Phe	Leu		
			100					105					110				
Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro		
		115					120					125					
Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	His	Arg	Ile	Cys	Leu	Leu	Leu	Leu		
	130					135					140						
Ser	Val	Cys	Trp	Leu	Leu	Gly	Ser	Leu	Asp	Gly	Phe	Met	Leu	Thr	Pro		
145					150					155					160		
Val	Thr	Met	Thr	Phe	Pro	Ile	Cys	Gly	Ser	Arg	Glu	Ile	His	His	Phe		
				165					170					175			

Phe	Cys	Glu	Val	Pro	Ala	Val	Thr	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Trp	
			180					185					190			
Leu	Tyr	Glu	Thr	Leu	Met	Tyr	Val	Cys	Cys	Val	Leu	Met	Ile	Leu	Ile	
		195					200					205				
Pro	Val	Thr	Val	Ile	Ser	Gly	Ser	Tyr	Ser	Ser	Ile	Leu	Leu	Thr	Val	
	210					215					220					
Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ala	Thr	Cys	
225					230					235					240	
Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ala	Val	Tyr	
			245						250					255		
Thr	Tyr	Met	Leu	Pro	Ala	Ser	Leu	His	Thr	Pro	Glu	Lys	Asp	Met	Val	
		260						265					270			
Val	Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	
	275						280					285				
Tyr	Ser	Phe	Arg	Asn	Lys	Asn	Val	Thr	Glu	Ala	Met	Lys	Lys	Leu	Leu	
	290					295					300					
Gly	Val	Ser	Ile	Pro	His											
305					310											

<210> 1935

<211> 306

<212> PRT

<213> Mus musculus

<400> 1935

Met	Glu	Ser	Gly	Asn	His	Ser	Cys	Gly	Thr	Glu	Phe	Thr	Leu	Val	Gly	
1				5				10						15		
Leu	Phe	Gln	Tyr	Gly	His	Met	Asp	Thr	Phe	Leu	Phe	Thr	Leu	Ile	Ala	
		20					25					30				
Ile	Leu	Phe	Ala	Val	Ala	Leu	Met	Gly	Asn	Ile	Thr	Leu	Val	Leu	Leu	
	35					40					45					
Ile	Arg	Leu	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	
	50					55				60						
Gln	Leu	Ser	Ile	Ile	Asp	Met	Met	Tyr	Ile	Ser	Thr	Thr	Val	Pro	Lys	
65					70				75					80		
Met	Ala	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Ala	Ile	Ser	Phe	Leu	Gly	
			85					90					95			
Cys	Ala	Val	Gln	Thr	Phe	Val	Phe	Leu	Thr	Leu	Gly	Gly	Ser	Glu	Ala	
		100						105					110			
Leu	Leu	Leu	Gly	Phe	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Gln	
	115					120					125					
Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Ser	Arg	Lys	Ile	Cys	Cys	Ser	Met	
	130					135					140					
Val	Ala	Gly	Ala	Trp	Ser	Ser	Ser	Ser	Ile	Asn	Ala	Phe	Met	His	Thr	
145					150				155					160		
Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His	
			165					170					175			
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr	
		180						185					190			
Ser	Gln	Tyr	Glu	His	Thr	Val	Leu	Val	Ser	Gly	Leu	Val	Ile	Leu	Leu	
	195						200					205				
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Val	Leu	Val	Val	
	210					215					220					
Val	Leu	Gln	Met	Gly	Ser	Gly	Lys	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr	
225					230					235					240	
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Thr	Leu	
			245						250				255			
Ser	Thr	Tyr	Thr	Gln	Pro	His	Ser	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys	

			260					265				270							
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe				
		275					280					285							
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Met	Gly	Ala	Leu	Arg	Arg	Gln				
	290					295					300								
Arg	Gly																		
305																			

<210> 1936  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1936

Met	Glu	Thr	Gly	Asn	His	Ser	Cys	Gly	Thr	Asp	Phe	Thr	Leu	Val	Gly				
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Leu	Phe	Gln	Tyr	Gly	His	Met	Asp	Thr	Phe	Leu	Phe	Thr	Val	Ile	Ser				
		20						25					30						
Ile	Leu	Phe	Ala	Val	Ala	Leu	Ile	Gly	Asn	Ile	Thr	Leu	Val	Leu	Leu				
		35					40					45							
Ile	Arg	Leu	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser				
	50					55					60								
Gln	Leu	Ser	Ile	Ile	Asp	Met	Met	Cys	Ile	Ser	Thr	Thr	Val	Pro	Lys				
65					70				75						80				
Met	Gly	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Ala	Ile	Ser	Val	Leu	Gly				
			85						90					95					
Cys	Glu	Ile	Gln	Val	Phe	Met	Phe	Met	Ser	Leu	Ala	Gly	Cys	Glu	Ala				
		100						105					110						
Leu	Leu	Leu	Gly	Phe	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Gln				
		115					120					125							
Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Ser	Arg	Lys	Ile	Cys	Cys	Ser	Met				
	130					135					140								
Val	Ala	Ser	Ala	Trp	Ser	Ser	Ser	Ser	Ile	Asn	Ala	Leu	Ala	His	Thr				
145					150					155					160				
Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His				
			165						170					175					
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr				
		180						185					190						
Ser	Gln	Tyr	Glu	His	Met	Ile	Val	Met	Ser	Val	Leu	Val	Leu	Val	Leu				
		195					200					205							
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Val	Leu	Val	Val				
	210					215					220								
Val	Phe	Gln	Met	Gly	Ser	Gly	Lys	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr				
225					230					235					240				
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Gly	Leu				
			245						250					255					
Cys	Thr	Tyr	Thr	Gln	Pro	His	Ser	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys				
		260						265					270						
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe				
		275					280					285							
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Arg	Arg	Gln				
	290					295					300								
Met	Gly																		
305																			

<210> 1937  
 <211> 321

<212> PRT

<213> Mus musculus

<400> 1937

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Met Ala Phe Leu His Asn Gly Asn His Thr Ala Val Thr Glu Phe Ile
 1          5          10          15
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Arg Ile Val Leu Phe Thr
          20          25          30
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr
          35          40          45
Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe
          50          55          60
Phe Leu Ser His Leu Ala Ser Ala Asp Ile Gly Tyr Ser Ser Ser Val
65          70          75          80
Thr Pro Asn Met Leu Val Asn Phe Leu Val Lys Gln Asn Thr Ile Ser
          85          90          95
Tyr Ile Gly Cys Ser Ile Gln Phe Gly Ser Ala Ala Phe Phe Gly Gly
          100          105          110
Leu Glu Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala
          115          120          125
Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys
          130          135          140
Val Gln Leu Val Val Gly Ser Tyr Ile Gly Gly Phe Leu Asn Ala Ser
145          150          155          160
Phe Ala Thr Val Ser Phe Leu Phe Leu Phe Phe Cys Gly Pro Asn Ile
          165          170          175
Ile Asn His Phe Phe Cys Asp Phe Ala Pro Leu Ile Glu Leu Ser Cys
          180          185          190
Ser Asp Val Arg Ile Ser Val Leu Val Thr Ser Phe Ser Ala Gly Thr
          195          200          205
Val Thr Met Leu Thr Val Leu Val Ile Ala Ile Ser Tyr Thr Tyr Ile
          210          215          220
Leu Ile Thr Ile Leu Lys Met Arg Ser Thr Glu Gly Arg His Lys Ala
225          230          235          240
Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Ser Leu Phe Tyr Gly
          245          250          255
Thr Ile Thr Phe Ile Tyr Val Met Pro Lys Ser Arg Tyr Ser Thr Asp
          260          265          270
Gln Asn Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu
          275          280          285
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Asn Glu Ile Lys Gly Ala Leu
          290          295          300
Arg Arg His Leu Gly Lys Lys Ile Phe Ser Gln Ser Asn Ile Leu Phe
305          310          315          320
Tyr
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<210> 1938

<211> 314

<212> PRT

<213> Mus musculus

<400> 1938

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Met Ala Phe Leu Glu Asn Gly Asn His Thr Ala Val Ser Glu Phe Ile
 1          5          10          15
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Arg Ile Val Leu Phe Thr
          20          25          30
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr
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Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Thr	Cys
130						135					140				
Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Thr	Gly	Gly	Ile	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Ala	Ile	Ile	Ser	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170						175
Ile	Asn	His	Phe	Tyr	Cys	Asp	Phe	Ala	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Ile	Asn	Val	Ser	Val	Val	Ile	Thr	Thr	Ile	Phe	Ser	Ala	Ser
		195					200					205			
Val	Thr	Ile	Ile	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	Tyr	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
				245					250					255	
Thr	Val	Thr	Phe	Ile	Tyr	Val	Val	Pro	Lys	Ser	Asn	Tyr	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Ala	Ser	Val	Phe	Tyr	Ile	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Asp	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Arg	Gln	Leu	Gly	Lys	Lys	Thr	Phe	Ser						
305					310										

<210> 1940  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1940

Met	Ala	Phe	Ile	Tyr	Asn	Gly	Ser	Gln	Thr	Thr	Val	Thr	Glu	Phe	Ile
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Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Lys	Val	Ile	Leu	Phe	Cys
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Gly	Val	Ser	Lys	Leu	His	His	Pro	Met	Tyr	Phe	
	50					55				60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Lys	Asn	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe	Phe	Gly	Ala
			100					105					110		
Val	Glu	Phe	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala
		115						120				125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Ser	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Val	Ala	Gly	Ser	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Val	Thr	His	Phe	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Val	Asn	His	Phe	Phe	Cys	Asp	Leu	Ser	Pro	Met	Met	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Val	Ser	Ile	Ser	Glu	Ile	Val	Ile	Ser	Phe	Ser	Ala	Gly	Ser
		195					200					205			
Phe	Thr	Met	Thr	Thr	Leu	Phe	Val	Ile	Val	Ile	Pro	Tyr	Phe	Tyr	Ile



210		215		220											
Phe	Ile	Thr	Ile	Leu	Lys	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly
			245						250						255
Thr	Ile	Ile	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Thr	Tyr	Ser	Arg	Asp
			260						265						270
Gln	Asn	Lys	Val	Val	Ser	Leu	Phe	Tyr	Met	Leu	Val	Ile	Pro	Val	Leu
		275							280						285
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Asp	Ala	Leu
	290						295								300
Lys	Arg	Gln	Phe	Tyr	Arg	Lys	Thr	Leu	Leu						
305					310										

<210> 1941  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1941

Met	Asn	Gly	Gly	Asn	His	Thr	Ser	Met	Thr	Glu	Leu	Phe	Ile	Leu	Gly
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Pro	Thr	Glu	Asp	Pro	Thr	Phe	Cys	Ile	Ala	Phe	Phe	Val	Ile	Phe	Leu
			20					25					30		
Gly	Val	Tyr	Met	Val	Thr	Leu	Val	Gly	Asn	Ile	Ser	Ile	Ile	Thr	Leu
		35					40					45			
Ile	Arg	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Val	Tyr	Leu	Phe	Leu	Asn
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Leu	Tyr	Ser	Thr	Leu	Val	Ser	Val	Ile
65					70					75					80
Met	Leu	Met	Glu	Leu	Glu	His	Glu	Leu	Ala	Leu	Pro	Val	Ala	Ala	
				85				90					95		
Cys	Ala	Ala	Glu	Leu	Cys	Ile	Thr	Val	Leu	Phe	Gly	Ser	Ser	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Met	Ser	Ser	Arg	Val	Cys	Phe	Leu	Leu
	130					135					140				
Leu	Gly	Met	Ser	Tyr	Val	Gly	Gly	Cys	Met	Asn	Gly	Trp	Ile	Phe	Thr
145					150					155					160
Gly	Cys	Leu	Leu	Asn	Leu	Ser	Phe	Tyr	Gly	Pro	Tyr	Gln	Ile	Asp	His
				165					170					175	
Phe	Phe	Cys	Asp	Phe	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Val
			180					185					190		
Ser	Ile	Ile	Gly	Ile	Ile	Pro	Ser	Ile	Ser	Ser	Gly	Ser	Ile	Ile	Val
		195					200					205			
Val	Thr	Val	Leu	Val	Ile	Ala	Val	Phe	Tyr	Ile	Cys	Ile	Leu	Met	Thr
	210					215					220				
Ile	Leu	Lys	Met	His	Ser	Thr	Asp	Gly	Cys	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Asn	Ser	Tyr	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	Thr	Ile	Thr
				245					250					255	
Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Asn	Tyr	Ser	Thr	Glu	Lys	Asn	Lys
			260					265					270		
Val	Leu	Ser	Glu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	His	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Lys	Asn	Arg	Asp	Val	Lys	Asp	Ala	Leu	Arg	Lys	Ala
	290					295					300				

Ile Val Arg Val Tyr Thr  
305 310

<210> 1942  
<211> 308  
<212> PRT  
<213> Mus musculus

<400> 1942  
Met Glu Ile Lys Asn Ser Ser Val Val Thr Glu Phe Ile Leu Leu Gly  
1 5 10 15  
Leu Thr Gln Ser Gln Glu Ala Gln Leu Leu Val Phe Ala Leu Ile Ser  
20 25 30  
Val Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr  
35 40 45  
Ile Arg Ser Asp Ser Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu Gly  
50 55 60  
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Arg  
65 70 75 80  
Met Leu Val Asp Phe Phe Cys Glu Lys Lys Val Ile Ser Tyr Lys Ala  
85 90 95  
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Ala Gly Glu Met  
100 105 110  
Phe Leu Leu Val Val Met Ala Val Asp Arg Tyr Ile Ala Ile Cys Arg  
115 120 125  
Pro Leu Tyr Tyr Ser Thr Leu Met Asn Pro Arg Val Cys Tyr Ala Leu  
130 135 140  
Leu Leu Ala Leu Trp Leu Gly Gly Phe Ala His Ser Ile Val Gln Val  
145 150 155 160  
Ala Leu Ile Leu Asn Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn  
165 170 175  
Phe Phe Cys Asp Val Pro Gln Val Val Lys Leu Ala Cys Thr Asp Thr  
180 185 190  
Phe Ala Val Glu Leu Leu Met Val Ser Asn Ser Gly Leu Leu Thr Leu  
195 200 205  
Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Tyr His  
210 215 220  
Val Lys Gly His Ser Ser Glu Gly Lys Ser Lys Ala Ile Ser Thr Cys  
225 230 235 240  
Thr Thr His Ile Ile Ile Val Phe Leu Met Phe Gly Pro Ala Ile Phe  
245 250 255  
Ile Tyr Thr Arg Pro Phe Gln Ala Leu Gln Ala Asp Lys Val Val Ser  
260 265 270  
Leu Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Val Ile Tyr Thr  
275 280 285  
Leu Arg Asn Gln Glu Val Lys Thr Ser Met Arg Lys Leu Leu Ser Gln  
290 295 300  
Tyr Val Ile Cys  
305

<210> 1943  
<211> 318  
<212> PRT  
<213> Mus musculus

<400> 1943  
Met Met Asn Val Ala Asn Lys Ser Val Val Thr Glu Phe Val Leu Leu

1				5					10					15			
Gly	Leu	Ser	Asn	Ser	Trp	Glu	Leu	Gln	Ile	Phe	Phe	Phe	Ile	Val	Phe		
			20					25					30				
Ser	Leu	Phe	Tyr	Val	Ala	Thr	Met	Val	Ser	Asn	Ser	Met	Ile	Val	Leu		
		35					40					45					
Ile	Val	Ile	Ser	Asp	Ser	His	Leu	His	Ser	Ala	Met	Tyr	Phe	Leu	Leu		
	50					55					60						
Thr	Asn	Leu	Ser	Ile	Ile	Asp	Met	Ser	Leu	Ala	Ser	Phe	Ala	Thr	Pro		
65				70						75					80		
Lys	Met	Ile	Ile	Asp	Tyr	Leu	Thr	Asp	His	Lys	Thr	Ile	Ser	Phe	Asp		
				85				90						95			
Gly	Cys	Ile	Ala	Gln	Ile	Phe	Phe	Leu	His	Leu	Phe	Thr	Gly	Thr	Glu		
			100					105					110				
Ile	Ile	Leu	Leu	Met	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys		
		115					120					125					
Lys	Pro	Leu	Arg	Tyr	Ala	Ser	Ile	Ile	Ser	Pro	Gln	Val	Cys	Ile	Ala		
	130					135					140						
Phe	Val	Val	Ser	Ser	Trp	Ile	Val	Gly	Thr	Met	His	Ser	Met	Ser	Gln		
145					150					155					160		
Val	Ile	Phe	Ala	Leu	Thr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Ile	Asp		
				165				170						175			
Ser	Phe	Phe	Cys	Asp	Leu	Pro	Val	Val	Phe	Gln	Leu	Ser	Cys	Val	Asp		
			180					185					190				
Thr	Tyr	Val	Leu	Gly	Leu	Phe	Met	Ile	Ser	Thr	Ser	Gly	Ile	Ile	Ala		
		195					200					205					
Leu	Ser	Cys	Phe	Ile	Leu	Leu	Phe	Asn	Ser	Tyr	Ile	Ile	Val	Leu	Val		
	210					215					220						
Thr	Ile	Lys	His	His	Ser	Ser	Lys	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr		
225					230					235					240		
Cys	Thr	Ala	His	Phe	Ile	Val	Val	Phe	Met	Phe	Phe	Gly	Pro	Cys	Ile		
				245					250					255			
Phe	Ile	Tyr	Met	Trp	Pro	Gln	Asn	Ser	Phe	Val	Ile	Glu	Lys	Ile	Leu		
			260					265					270				
Ser	Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ile	Met	Asn	Pro	Val	Ile	Tyr		
		275					280					285					
Thr	Leu	Arg	Asn	His	Glu	Val	Asn	Ser	Ala	Met	Arg	Lys	Leu	Arg	Ser		
	290					295					300						
Lys	Phe	Leu	Asn	Phe	Ser	Thr	Glu	Thr	Pro	Ser	Tyr	Ser	Leu				
305					310					315							

<210> 1944

<211> 309

<212> PRT

<213> Mus musculus

<400> 1944

Met	Asp	Tyr	Glu	Asn	Gly	Ser	Ala	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly		
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Phe	Ser	Arg	Asp	Trp	Gln	Leu	Gln	Ile	Phe	Phe	Phe	Val	Thr	Phe	Thr		
			20					25					30				
Leu	Ile	Tyr	Gly	Ala	Thr	Val	Val	Gly	Asn	Ile	Leu	Ile	Ile	Val	Thr		
		35					40					45					
Val	Ala	Ala	Asn	Ser	Ala	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Gly		
	50					55					60						
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Leu	Ser	Thr	Val	Thr	Thr	Pro	Lys		
65					70					75					80		
Met	Ile	Thr	Asp	Leu	Leu	Ala	Ala	His	Lys	Ser	Ile	Ser	Phe	Gln	Gly		
				85					90					95			

Cys	Met	Val	Gln	Met	Phe	Phe	Ser	His	Phe	Phe	Gly	Gly	Ala	Glu	Met
			100					105					110		
Thr	Leu	Leu	Ile	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Arg	Ile	Ile	Met	Ser	His	Arg	Leu	Leu	Asn	Arg	Phe
	130					135					140				
Ile	Ile	Leu	Ser	Trp	Thr	Ile	Gly	Phe	Ile	His	Thr	Met	Ser	Gln	Met
145					150					155					160
Ala	Leu	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	His	Asn	Ile	Ile	Asn	Asn
				165					170					175	
Ile	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Ile	Glu	Thr
			180					185					190		
Tyr	Thr	Leu	Glu	Leu	Phe	Val	Ile	Ala	Asp	Ser	Gly	Leu	Leu	Ser	Phe
		195					200					205			
Ile	Ser	Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Thr	Val	Ile	Leu	Leu	Ile
	210					215					220				
Val	Lys	His	Lys	Ser	Pro	Gly	Ser	Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Ile	Ile	Val	Val	Thr	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Ile	Tyr	Ala	Trp	Pro	Phe	Gly	Ser	Phe	Ala	Ser	Asn	Thr	Thr	Leu	Ala
			260					265					270		
Val	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Glu	Met	Lys	Lys	Ala	Met	Arg	Lys	Leu	Trp	Asn	Gln
	290					295					300				
Gln	Val	Ser	Cys	Arg											
305															

<210> 1945

<211> 322

<212> PRT

<213> Mus musculus

<400> 1945

Met	Ala	Thr	Ser	Val	His	Arg	Asn	Gly	Ser	Leu	Thr	Pro	Val	Ser	Leu
1				5					10					15	
Gln	Gly	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Ser	Ala	Glu	Thr	Gln	Ala
			20					25				30			
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Val	Val	Thr	Ile	Leu	Gly
		35					40					45			
Asn	Leu	Thr	Met	Ile	Met	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser
	50					55					60				
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Leu
65					70					75					80
Ser	Ser	Val	Ile	Ile	Pro	Asn	Ala	Leu	Ala	Asn	Ile	Phe	Ser	Ser	Ser
				85					90					95	
Lys	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Phe	Ser
			100					105					110		
Leu	Leu	Ala	Ala	Thr	Glu	Ala	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp
		115					120					125			
Arg	Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	Arg	Tyr	Pro	Val	Thr	Met	Cys
	130					135					140				
Pro	Met	Thr	Cys	Ala	Arg	Leu	Val	Leu	Gly	Thr	Phe	Cys	Val	Ala	Cys
145					150					155					160
Leu	Asn	Ser	Ile	Val	Gln	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys
				165					170					175	
Ser	Ser	Asn	Tyr	Ile	Asp	Tyr	Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu

Gln	Leu	Ala	Cys	Ala	Ser	Thr	Ala	Ile	Asn	Glu	Leu	Val	Met	Phe	Gly
		180						185					190		
Ile	Cys	Gly	Phe	Ile	Ile	Val	Cys	Ala	Val	Phe	Val	Val	Ile	Ile	Ser
	195						200					205			
Tyr	Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Arg	Met	Arg	Ser	Gly	Ser	Gly
225		210				215					220				
Arg	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Thr	Ala	Val	Ser
				230					235						240
Leu	Phe	Tyr	Gly	Thr	Gly	Phe	Val	Ile	Tyr	Gly	Gln	Pro	Gly	Gly	Val
			245						250					255	
Ala	Ser	Met	Glu	Gln	Gly	Lys	Val	Val	Ser	Thr	Ile	Tyr	Thr	Leu	Val
		260						265					270		
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
	275					280						285			
Lys	Asp	Ala	Leu	Arg	Arg	Leu	Gly	Gln	Arg	His	Ser	Leu	Val	Lys	Glu
305					310				315						320
Ser	Gly														

<210> 1946

<211> 323

<212> PRT

<213> Mus musculus

<400> 1946

Met	Ala	Ile	Ala	Val	Tyr	Arg	Asn	Gly	Ser	Leu	Ser	Ala	Val	Ser	Leu
1				5					10					15	
Gln	Gly	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Gly	Ala	Glu	Thr	Gln	Ala
			20					25					30		
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Val	Val	Thr	Ile	Leu	Gly
		35					40					45			
Asn	Leu	Thr	Met	Ile	Val	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser
	50					55					60				
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr
65					70					75					80
Ser	Ser	Ala	Ile	Ala	Pro	Asn	Ala	Leu	Ala	Asn	Phe	Leu	Ser	Thr	Ser
				85					90					95	
Lys	Val	Ile	Ser	Phe	Glu	Ala	Cys	Ala	Thr	Gln	Leu	Phe	Phe	Phe	Ser
			100					105					110		
Leu	Leu	Ala	Thr	Thr	Glu	Ala	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp
		115					120					125			
Arg	Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	Arg	Tyr	Pro	Val	Thr	Met	Cys
	130					135					140				
Pro	Thr	Thr	Cys	Thr	Arg	Leu	Val	Leu	Gly	Thr	Tyr	Cys	Gly	Gly	Cys
145					150					155					160
Leu	Asn	Ser	Ile	Val	Gln	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys
				165					170					175	
Ser	Ser	Asn	Arg	Ile	Asp	His	Phe	Tyr	Cys	Asp	Val	Pro	Pro	Leu	Leu
			180					185					190		
Gln	Leu	Ala	Cys	Ala	Ser	Thr	Ala	Leu	Asn	Glu	Leu	Phe	Leu	Phe	Gly
		195					200					205			
Leu	Cys	Gly	Phe	Ile	Ile	Val	Ser	Thr	Thr	Leu	Ala	Val	Leu	Val	Ser
	210					215						220			
Tyr	Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Arg	Met	His	Ser	Gly	Ser	Gly
225					230					235					240
Arg	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Met	Ala	Val	Ser
				245					250					255	

Leu	Phe	Tyr	Gly	Thr	Val	Phe	Val	Met	Tyr	Ala	Gln	Pro	Gly	Ala	Val
			260					265					270		
Ala	Ser	Met	Ala	Gln	Gly	Lys	Val	Ile	Ser	Val	Phe	Tyr	Thr	Leu	Val
		275					280					285			
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
	290					295					300				
Lys	Asp	Ala	Leu	Arg	Arg	Leu	Gly	Gln	Arg	His	Ser	Leu	Val	Lys	Lys
305					310					315					320
Gly	Gly	Lys													

<210> 1947

<211> 316

<212> PRT

<213> Mus musculus

<400> 1947

Met	Met	Thr	Leu	Ser	Trp	Glu	Asn	Gln	Thr	Val	Ile	Val	Glu	Phe	Val
1				5					10					15	
Leu	Arg	Gly	Phe	Ser	Ser	Ile	Leu	Gln	Leu	Asn	Ile	Ser	Leu	Phe	Ile
		20						25					30		
Met	Phe	Cys	Ile	Phe	Tyr	Ile	Leu	Thr	Ile	Ser	Gly	Asn	Ile	Leu	Ile
		35					40					45			
Val	Phe	Leu	Val	Leu	Cys	Asn	His	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Val	Asn	Leu	Ser	Phe	Leu	Glu	Val	Cys	Tyr	Thr	Ser	Asn	Ile
65					70					75				80	
Val	Pro	Lys	Met	Leu	Leu	Ile	Ile	Ile	Ala	Asp	Gln	Lys	Thr	Ile	Ser
				85					90					95	
Val	Val	Gly	Cys	Leu	Ala	Gln	Phe	Tyr	Phe	Phe	Gly	Ser	Leu	Ala	Ala
			100					105					110		
Thr	Glu	Cys	Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Leu	Ala
		115					120					125			
Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Ile	Leu	Met	Thr	Gly	Ser	Leu	Cys
	130					135						140			
Phe	Arg	Leu	Ala	Ile	Gly	Ser	Trp	Phe	Cys	Cys	Phe	Phe	Leu	Thr	Ala
145					150					155					160
Ile	Thr	Met	Val	Leu	Cys	Arg	Gln	Asn	Phe	Cys	Gly	Pro	Asn	Glu	
				165				170					175		
Ile	Asp	His	Phe	Phe	Cys	Asp	Phe	Ala	Pro	Leu	Ile	His	Leu	Ser	Cys
			180					185					190		
Met	Asp	Thr	Ser	Leu	Ile	Glu	Thr	Val	Ala	Phe	Ala	Thr	Ser	Ser	Ala
		195					200					205			
Val	Thr	Leu	Val	Pro	Phe	Phe	Leu	Ile	Thr	Ile	Ser	Tyr	Ser	Cys	Ile
	210					215					220				
Leu	Ile	Ala	Ile	Leu	Arg	Ile	Pro	Ser	Gly	Thr	Gly	Arg	Lys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly
				245					250					255	
Thr	Leu	Ile	Ala	Thr	Tyr	Leu	Val	Pro	Ser	Ala	Asn	Ser	Ser	Gln	Tyr
			260					265					270		
Leu	Arg	Lys	Gly	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Phe
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	His	Glu	Ala	Leu
	290					295					300				
Lys	Lys	Cys	Leu	Ser	Lys	Lys	Ser	Asp	Phe	Leu	Ile				
305					310					315					

<210> 1948  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1948

Met	Val	Glu	Asn	Phe	Asn	Ala	Ser	Trp	Glu	Gly	Tyr	Phe	Ile	Phe	Leu
1				5					10					15	
Gly	Phe	Ser	Lys	Trp	Pro	His	Leu	Glu	Val	Val	Leu	Phe	Val	Val	Ile
			20					25					30		
Leu	Ile	Phe	Tyr	Met	Met	Thr	Leu	Met	Gly	Asn	Leu	Phe	Ile	Ile	Ile
		35					40					45			
Leu	Ser	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Ala	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ser	Val	Pro
65					70					75					80
Gln	Leu	Leu	Phe	Asn	Leu	Trp	Gly	Pro	Lys	Lys	Thr	Ile	Ser	Tyr	Ala
				85					90					95	
Gly	Cys	Met	Leu	Gln	Leu	Tyr	Phe	Val	Leu	Ala	Leu	Gly	Thr	Thr	Glu
			100					105					110		
Cys	Val	Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys
		115					120					125			
Lys	Pro	Leu	His	Tyr	Ser	Val	Leu	Met	Asn	Pro	Arg	Phe	Cys	Gln	Leu
	130					135						140			
Leu	Ala	Ala	Ala	Ser	Trp	Val	Cys	Gly	Phe	Thr	Thr	Ser	Ala	Leu	His
145					150					155					160
Ser	Ser	Phe	Thr	Phe	Trp	Val	Pro	Leu	Cys	Gly	His	Arg	Lys	Val	Asp
				165					170					175	
His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Gln	Leu	Ser	Cys	Val	Asp
			180					185					190		
Ile	His	Ala	Asn	Glu	Met	Thr	Leu	Met	Val	Met	Ser	Ala	Ile	Phe	Val
		195					200					205			
Val	Ile	Pro	Leu	Ile	Leu	Ile	Leu	Ser	Ser	Tyr	Ala	Ala	Ile	Ala	Trp
	210					215					220				
Thr	Val	Leu	Glu	Met	Gln	Ser	Thr	Thr	Arg	Leu	Gln	Lys	Val	Phe	Gly
225					230					235					240
Thr	Cys	Gly	Ala	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Phe	Ile	Pro	Ile
				245					250					255	
Met	Cys	Ile	Tyr	Leu	Gln	Pro	Ser	Thr	Lys	Ser	Ser	Gln	Asp	His	Ala
			260					265					270		
Lys	Phe	Ile	Ala	Leu	Phe	Tyr	Thr	Val	Val	Thr	Pro	Ser	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Arg	Gly	Ala	Ile	Arg	Arg
	290					295					300				
Leu	Ser	Arg	Tyr	Glu	Arg	Glu	Lys								
305					310										

<210> 1949  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 1949

Met	Thr	Ile	Asn	Lys	Ser	Ser	Gly	Gly	Asp	Phe	Ile	Leu	Val	Gly	Phe
1				5					10					15	
Ser	Asp	Gln	Pro	Gln	Leu	Glu	Lys	Ile	Leu	Phe	Val	Leu	Val	Leu	Ile
			20					25					30		

Ser	Tyr	Leu	Leu	Thr	Leu	Val	Gly	Asn	Thr	Ala	Ile	Ile	Leu	Val	Ser
		35					40					45			
Cys	Leu	Asp	Ser	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Thr	Asn
	50					55					60				
Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Ser	Thr	Ser	Ile	Val	Pro	Gln	Leu
65					70					75					80
Leu	Trp	Asn	Leu	His	Gly	Pro	Ala	Lys	Thr	Ile	Thr	Ala	Thr	Gly	Cys
				85					90					95	
Ala	Ile	Gln	Leu	Tyr	Val	Ser	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys	Val
			100					105					110		
Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Ala	Thr	Val	Met	His	Pro	Arg	Leu	Cys	Gln	Ser	Leu	Ala
	130					135					140				
Gly	Val	Ala	Trp	Leu	Ser	Gly	Val	Gly	Asn	Thr	Leu	Ile	Gln	Gly	Thr
145					150					155					160
Ile	Thr	Leu	Arg	Leu	Pro	Arg	Cys	Gly	Asn	His	Lys	Ile	Tyr	His	Phe
				165					170					175	
Ile	Cys	Glu	Val	Pro	Ala	Met	Ile	Lys	Leu	Ala	Cys	Val	Asp	Ile	His
			180					185					190		
Ala	Asn	Glu	Val	Gln	Leu	Phe	Met	Ala	Ser	Leu	Val	Leu	Leu	Leu	Leu
		195					200					205			
Pro	Leu	Thr	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Ala	Gln	Ala	Leu
	210					215					220				
Met	Arg	Leu	Arg	Ser	Ala	Leu	Thr	Trp	Gly	Lys	Ala	Leu	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Met	Leu	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ile	Thr	Ala
				245					250					255	
Ile	Tyr	Ile	Gln	Pro	Asn	Ser	Ser	Tyr	Ala	His	Ser	Gln	Gly	Lys	Phe
			260					265					270		
Ile	Thr	Leu	Tyr	Thr	Val	Val	Ile	Pro	Thr	Leu	Asn	Pro	Leu	Ile	
		275					280				285				
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Val
	290					295					300				
Arg	Lys	Asn	Asn	Ser	Thr	Gly	Lys	Lys	Ile	Leu	Ser	Arg			
305					310					315					

<210> 1950

<211> 306

<212> PRT

<213> Mus musculus

<400> 1950

Met	Glu	Val	Asn	Arg	Thr	Leu	Val	Thr	Ala	Phe	Ile	Leu	Arg	Gly	Ile
1				5					10					15	
Thr	Asp	Leu	Pro	Glu	Leu	Gln	Val	Pro	Met	Phe	Leu	Val	Phe	Phe	Phe
			20					25					30		
Ile	Tyr	Val	Thr	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu	Ile
		35					40					45			
Trp	Lys	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Ser
	50					55				60					
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Thr	Ser	Ser	Ser	Val	Thr	Pro	Arg	Met
65					70					75					80
Leu	Val	Asn	Ile	Leu	Asp	Asn	Gly	Lys	Met	Ile	Ser	Leu	Ser	Glu	Cys
				85					90					95	
Met	Ala	Gln	Tyr	Tyr	Val	Phe	Gly	Ser	Ser	Ala	Thr	Thr	Glu	Cys	Phe
			100					105					110		
Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro



115	120	125
Leu Leu Tyr Leu Val Val Met Ser Asn Arg Val Cys Thr Cys Leu Ile		
130	135	140
Ser Gly Ser Tyr Ile Ile Gly Phe Leu His Pro Leu Ile His Val Gly		
145	150	155
Leu Leu Phe Arg Leu Thr Phe Cys Lys Ser Asn Ile Ile Asp His Phe		
165	170	175
Tyr Cys Glu Ile Leu Pro Leu Tyr Thr Ile Ser Cys Thr Asp Pro Ser		
180	185	190
Ile Asn Ala Phe Val Val Phe Ile Phe Ala Ala Val Ile Gln Ala Val		
195	200	205
Thr Phe Met Ser Ile Ala Val Ser Tyr Ala His Val Leu Phe Ser Ile		
210	215	220
Leu Lys Thr Lys Ser Glu Lys Gly Arg Arg Lys Ala Phe Ser Thr Cys		
225	230	235
Ser Ala His Leu Leu Ser Val Ser Leu Phe Tyr Gly Thr Leu Phe Phe		
245	250	255
Met Tyr Val Ser Pro Gly Ser Gly Pro Ser Lys Tyr Lys Asn Lys Met		
260	265	270
Tyr Ser Leu Phe Tyr Thr Ile Val Ile Pro Leu Leu Asn Pro Phe Ile		
275	280	285
Tyr Ser Leu Arg Asn Lys Glu Val Leu Gly Ala Leu Arg Lys Ile Met		
290	295	300
Lys Pro		
305		

<210> 1951

<211> 309

<212> PRT

<213> Mus musculus

<400> 1951

Met Glu Lys Lys Asn Glu Thr Leu Trp Thr Glu Phe Val Leu Thr Gly	
1	5
Leu Thr Cys Leu Pro Gln Trp Lys Pro Leu Leu Phe Leu Val Phe Leu	
20	25
Val Ile Tyr Phe Met Thr Ile Val Gly Asn Leu Gly Leu Ile Thr Leu	
35	40
Ile Trp Asn Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Ser	
50	55
Asn Leu Ala Phe Val Asp Thr Trp Leu Ser Ser Thr Val Thr Pro Arg	
65	70
Met Leu Phe Asn Leu Leu Asp Lys Gly Lys Val Ile Ser Val Ala Glu	
85	90
Cys Lys Thr Gln Phe Phe Ser Phe Ala Ile Ser Val Thr Thr Glu Cys	
100	105
Phe Leu Leu Tyr Pro Val Ile Met Thr Asn Arg Leu Cys Val Arg Leu	
115	120
Pro Leu Leu Tyr Pro Val Ile Met Thr Asn Arg Leu Cys Val Arg Leu	
130	135
Leu Ala Leu Ser Phe Ile Gly Gly Phe Leu His Ala Val Ile His Glu	
145	150
Ser Phe Leu Ser Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile Tyr His	
165	170
Phe Tyr Cys Asp Val Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Pro	
180	185
Ser Leu Asn Tyr Leu Ile Ile Phe Ile Phe Ser Gly Ser Ile Gln Val	
195	200
	205

Phe	Thr	Ile	Met	Thr	Val	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Leu	Phe	Thr
	210					215					220				
Ile	Leu	Lys	Lys	Lys	Ser	Asp	Lys	Gly	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Val	His	Pro	Ala	Ser	Ser	Glu	Val	Asp	Asp	Gln	Asp	Met
			260					265					270		
Ile	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Ile	Asp	Ser	Leu	Lys	Lys	Met
	290					295					300				
Leu	Lys	Met	Met	Val											
305															

<210> 1952

<211> 309

<212> PRT

<213> Mus musculus

<400> 1952

Met	Gly	Thr	Glu	Asn	Thr	Thr	Leu	Leu	Thr	Glu	Phe	Val	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	His	Gln	Pro	Gln	Trp	Lys	Ile	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20				25					30			
Val	Ile	Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ile	Leu
		35				40					45				
Ile	Trp	Asn	Asp	Pro	Arg	Leu	Gln	Ile	Pro	Met	Tyr	Leu	Phe	Leu	Gly
	50					55				60					
Cys	Leu	Ala	Leu	Val	Asp	Thr	Leu	Leu	Ser	Ser	Thr	Val	Thr	Pro	Lys
65					70					75					80
Met	Leu	Leu	Thr	Phe	Thr	Ala	Lys	Ser	Lys	Leu	Ile	Ser	Leu	Ser	Glu
				85					90					95	
Cys	Met	Ile	Gln	Phe	Phe	Ser	Phe	Val	Met	Cys	Ala	Thr	Met	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr	Asn	Arg	Leu	Cys	Val	Arg	Leu
	130					135					140				
Leu	Val	Leu	Thr	Phe	Val	Thr	Gly	Ile	Leu	His	Ala	Ser	Ile	His	Glu
145					150					155					160
Gly	Met	Leu	Cys	Arg	Leu	Thr	Phe	Cys	Asn	Ser	Asn	Val	Ile	His	His
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Thr	Asp	Pro
			180					185					190		
Ser	Leu	Asn	Tyr	Leu	Ile	Val	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
		195					200					205			
Phe	Thr	Ile	Ser	Thr	Ile	Leu	Gly	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Thr
	210					215					220				
Ile	Leu	Lys	Lys	Lys	Ser	Ala	Lys	Gly	Ile	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Cys	Leu	Tyr	Tyr	Gly	Ser	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Leu	Pro	Ala	Ser	Gln	Lys	Ala	Gln	Asp	Glu	Asp	Met	
			260				265					270			
Met	Asp	Ser	Val	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Met	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Ile	Lys	Asp	Ser	Leu	Glu	Lys	Phe

290  
Leu Lys Arg Asn Val  
305

295

300

<210> 1953  
<211> 313  
<212> PRT  
<213> Mus musculus

<400> 1953  
Met Ala Asn Ser Thr Thr Val Thr Glu Phe Ile Leu Leu Gly Leu Ser  
1 5 10 15  
Asp Ala Cys Glu Leu Gln Val Leu Ile Phe Leu Gly Phe Leu Leu Thr  
20 25 30  
Tyr Phe Leu Ile Leu Leu Gly Asn Phe Leu Ile Ile Phe Ile Thr Leu  
35 40 45  
Ala Asp Arg Arg Leu Tyr Thr Pro Met Tyr Tyr Phe Leu Arg Asn Phe  
50 55 60  
Ala Met Leu Glu Ile Trp Phe Thr Ser Val Ile Phe Pro Lys Met Leu  
65 70 75 80  
Thr Asn Ile Ile Thr Gly His Lys Thr Ile Ser Leu Leu Gly Cys Phe  
85 90 95  
Leu Gln Ala Phe Leu Tyr Phe Phe Leu Gly Thr Thr Glu Phe Phe Leu  
100 105 110  
Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu  
115 120 125  
Arg Tyr Ala Thr Ile Met Ser Lys Arg Val Cys Val Gln Leu Val Phe  
130 135 140  
Cys Ser Trp Met Ser Gly Leu Leu Leu Ile Ile Val Pro Ser Ser Ile  
145 150 155 160  
Val Phe Gln Gln Pro Phe Cys Gly Pro Asn Ile Ile Asn His Phe Phe  
165 170 175  
Cys Asp Asn Phe Pro Leu Met Glu Leu Ile Cys Ala Asp Thr Ser Leu  
180 185 190  
Val Glu Phe Leu Gly Phe Val Ile Ala Asn Phe Ser Leu Leu Gly Thr  
195 200 205  
Leu Ala Val Thr Ala Thr Cys Tyr Gly His Ile Leu Tyr Thr Ile Leu  
210 215 220  
His Ile Pro Ser Ala Lys Glu Arg Lys Lys Ala Phe Ser Thr Cys Ser  
225 230 235 240  
Ser His Ile Ile Val Val Ser Leu Phe Tyr Gly Ser Cys Ile Phe Met  
245 250 255  
Tyr Val Arg Ser Gly Lys Asn Gly Gln Gly Glu Asp His Asn Lys Val  
260 265 270  
Val Ala Leu Leu Asn Thr Val Val Thr Pro Thr Leu Asn Pro Phe Ile  
275 280 285  
Tyr Thr Leu Arg Asn Lys Gln Val Lys Gln Val Phe Arg Glu His Val  
290 295 300  
Ser Lys Phe Gln Lys Phe Ser Gln Thr  
305 310

<210> 1954  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 1954

Met	Ala	Val	Gly	Asn	Ser	Ser	Ser	Val	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Glu	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Ser	Val	Met	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu
		35					40					45			
Ile	Val	Leu	Asn	Pro	Pro	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Arg
65					70					75					80
Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Thr	Ile	Ser	His	Ala	Glu	Cys
				85					90					95	
Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr
			100					105					110		
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr
	130					135					140				
Val	Gly	Met	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala	Ile	Ala	His	Ile	Val
145					150					155					160
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Glu	Gly	His	Ile	Ile	Asn	His	Tyr
				165					170					175	
Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr	Tyr
			180					185					190		
Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile	Val
		195					200					205			
Pro	Thr	Leu	Thr	Ile	Phe	Ile	Thr	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile
	210					215					220				
Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ala	Ala	Ala	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Glu	Glu	Lys	Leu	Ser
			260					265					270		
Thr	Ile	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu	Arg	Lys	Thr	Leu	Lys
	290					295					300				
Lys	Ser	Met	Phe	Thr											
305															

<210> 1955

<211> 314

<212> PRT

<213> Mus musculus

<400> 1955

Met	Thr	Leu	Glu	Arg	Met	Ala	Phe	Ser	Asn	Asp	Ser	Ser	Val	Lys	Glu
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Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu
			20					25					30		
Phe	Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Val	Ser	Met	Val	Gly	Asn	Leu
		35					40					45			
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met
	50					55					60				
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Ser
65					70					75					80
Val	Ile	Thr	Pro	Lys	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile

				85					90					95			
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ser	Phe	Phe	Val		
			100						105				110				
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala		
		115					120					125					
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	Tyr	Gln	Val		
		130					135					140					
Cys	Leu	Leu	Met	Thr	Gly	Gly	Met	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala		
145					150					155					160		
Ile	Ala	His	Ile	Val	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Glu	Gly	Tyr		
				165					170					175			
Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser		
		180					185						190				
Cys	Thr	Ser	Thr	Tyr	Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly		
		195					200					205					
Val	Asn	Val	Ile	Val	Pro	Thr	Leu	Thr	Ile	Phe	Ile	Ser	Tyr	Thr	Leu		
	210					215					220						
Ile	Leu	Ser	Asn	Ile	Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys		
225					230				235						240		
Ala	Phe	Arg	Thr	Cys	Gly	Ser	His	Phe	Ile	Ala	Val	Ser	Leu	Phe	Tyr		
				245					250					255			
Gly	Ala	Ser	Ala	Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp		
			260					265					270				
Asp	Asp	Lys	Ile	Ser	Thr	Ile	Phe	Tyr	Ile	Ile	Val	Gly	Pro	Met	Leu		
		275					280					285					
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu		
	290					295					300						
Arg	Lys	Thr	Leu	Lys	Lys	Ser	Thr	Phe	Ile								
305					310												

<210> 1956

<211> 313

<212> PRT

<213> Mus musculus

<400> 1956

Met	Lys	Gln	Met	Ala	Thr	Glu	Asn	Asp	Ser	Ser	Val	Ser	Glu	Phe	Ile		
1				5					10					15			
Leu	Leu	Gly	Leu	Thr	Asp	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Ala		
			20					25					30				
Leu	Phe	Leu	Leu	Asn	Tyr	Thr	Ala	Thr	Met	Val	Gly	Asn	Leu	Thr	Leu		
		35					40					45					
Met	Ser	Leu	Ile	Leu	Val	His	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50					55					60						
Phe	Ile	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Phe		
65				70					75					80			
Thr	Pro	Lys	Met	Leu	Met	Lys	Phe	Phe	Leu	Glu	Lys	Asn	Thr	Ile	Ser		
			85						90					95			
Phe	Lys	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Asn		
			100					105					110				
Thr	Glu	Ser	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala		
	115						120					125					
Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Ala	Ile	Met	Leu	Pro	Arg	Ile	Cys		
	130					135					140						
Cys	Leu	Leu	Met	Phe	Met	Ser	Tyr	Leu	Met	Gly	Phe	Val	Ser	Ala	Met		
145					150					155					160		
Ile	Leu	Thr	Gly	Leu	Met	Phe	Arg	Leu	Asn	Phe	Cys	Asn	Ser	Asn	Ile		
				165					170						175		

Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu	Leu	Gln	Ile	Ser	Cys	
			180					185					190			
Ser	Asp	Thr	Tyr	Leu	Asn	Glu	His	Val	Ser	Ser	Ala	Val	Val	Gly	Thr	
		195					200					205				
Ala	Ile	Ile	Leu	Cys	Ser	Leu	Leu	Ile	Leu	Met	Ser	Tyr	Ala	Leu	Ile	
	210					215					220					
Leu	Phe	Asn	Ile	Leu	Asn	Met	Ser	Ser	Gly	Lys	Gly	Trp	Ser	Lys	Ala	
225					230				235						240	
Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Ala	Ser	Leu	Phe	Tyr	Gly	
			245						250					255		
Ser	Gly	Leu	Leu	Ala	Tyr	Val	Lys	Pro	Ser	Ser	Pro	Glu	Thr	Val	Gly	
			260				265						270			
Gln	Gly	Lys	Phe	Leu	Thr	Val	Phe	Tyr	Thr	Cys	Leu	Val	Pro	Val	Leu	
	275						280					285				
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Pro	Asn	Lys	Asp	Val	Lys	Ile	Ala	Met	
	290					295					300					
Lys	Lys	Thr	Leu	Lys	Arg	Ile	Thr	Ser								
305					310											

<210> 1957

<211> 331

<212> PRT

<213> Mus musculus

<400> 1957

Met	Leu	Leu	Gln	Met	Gln	His	Met	Lys	Gln	Met	Asn	Met	Glu	Asn	Asp	
1				5					10					15		
Ser	Ser	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr	Tyr	Gln	Pro	Glu	
		20					25					30				
Leu	Arg	Trp	Pro	Leu	Phe	Val	Leu	Phe	Leu	Val	Asn	Tyr	Ser	Ala	Thr	
	35					40					45					
Val	Met	Gly	Asn	Leu	Ser	Leu	Met	Thr	Leu	Ile	Phe	Leu	Asn	Ser	His	
	50					55					60					
Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Leu	Asn	Leu	Ser	Phe	Ile	Asp	
65				70					75					80		
Phe	Cys	Tyr	Ser	Phe	Asp	Phe	Thr	Pro	Lys	Met	Leu	Met	Gly	Phe	Val	
			85					90					95			
Ser	Glu	His	Asn	Thr	Ile	Ser	Phe	Thr	Gly	Cys	Met	Thr	Gln	Leu	Phe	
			100				105						110			
Phe	Phe	Cys	Leu	Phe	Val	Asn	Ser	Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met	
		115					120					125				
Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	Leu	Tyr	Thr	Val	
	130					135					140					
Val	Met	Ser	Pro	Arg	Ala	Cys	Ser	Leu	Leu	Met	Leu	Ala	Ala	His	Leu	
145				150					155					160		
Met	Gly	Val	Ser	Ser	Ala	Ile	Val	His	Thr	Gly	Cys	Ile	Ile	Gln	Leu	
			165						170					175		
Arg	Phe	Cys	Gly	Ser	Lys	Val	Ile	Asn	His	Tyr	Met	Cys	Asp	Thr	Phe	
			180				185						190			
Pro	Leu	Leu	Glu	Leu	Ser	Cys	Gly	Ser	Ser	His	Val	Asn	Glu	Leu	Val	
		195				200						205				
Ser	Ser	Val	Ser	Val	Ala	Val	Val	Val	Val	Ile	Ser	Ser	Leu	Ile	Ile	
	210					215					220					
Val	Ser	Ser	Tyr	Ala	Leu	Ile	Leu	Val	Asn	Val	Met	His	Leu	Ser	Ser	
225					230					235				240		
Ser	Lys	Gly	Trp	Ser	Lys	Ala	Val	Ser	Thr	Cys	Ser	Ser	His	Ile	Ile	
			245						250				255			
Thr	Val	Ala	Leu	Phe	Tyr	Gly	Phe	Gly	Leu	Leu	Ala	His	Ile	Lys	Pro	

			260					265					270				
Ser	Ser	Ala	Glu	Ser	Val	Val	Glu	Arg	Lys	Phe	Phe	Ser	Val	Val	Tyr		
		275					280					285					
Thr	Phe	Val	Leu	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn		
	290					295					300						
Lys	Asp	Val	Lys	Leu	Ala	Leu	Lys	Arg	Thr	Leu	Lys	Arg	Val	Thr	Ile		
305					310					315					320		
Gln	Gly	Lys	Cys	Leu	Cys	Cys	Ser	His	Lys	Ser							
			325						330								

<210> 1958

<211> 316

<212> PRT

<213> Mus musculus

<400> 1958

Met	Ala	Thr	Gly	Asn	His	Tyr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly		
1				5					10					15			
Leu	Thr	Glu	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu		
		20					25						30				
Val	Asn	Cys	Leu	Ile	Thr	Val	Val	Gly	Asn	Leu	Ser	Leu	Met	Ser	Leu		
		35					40					45					
Ile	Cys	Cys	Asn	Ser	Asn	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe		
	50					55					60						
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Ala	Phe	Thr	Pro	Lys		
65					70					75					80		
Thr	Leu	Met	Ser	Phe	Val	Leu	Glu	Lys	Asn	Ile	Ile	Tyr	Phe	Thr	Gly		
			85						90					95			
Cys	Met	Thr	Gln	Leu	Phe	Phe	Met	Cys	Leu	Phe	Ala	Asn	Ser	Glu	Cys		
			100					105					110				
Tyr	Leu	Val	Thr	Ala	Met	Asp	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Gln		
		115				120						125					
Pro	Leu	Leu	Tyr	Met	Ile	Ile	Thr	Ser	Pro	Met	Thr	Cys	Ser	Leu	Met		
	130					135					140						
Met	Phe	Gly	Ser	Tyr	Leu	Met	Gly	Gly	Ile	Gly	Ala	Ile	Val	His	Thr		
145					150					155					160		
Gly	Cys	Met	Ile	Arg	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Asn	His		
			165						170					175			
Tyr	Met	Tyr	Asp	Ile	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Ser	Ile		
			180					185					190				
Tyr	Ala	Asn	Glu	Leu	Val	Ser	Ser	Val	Phe	Val	Ser	Thr	Val	Val	Leu		
		195					200					205					
Ala	Ser	Ser	Phe	Leu	Ile	Leu	Thr	Ser	Tyr	Ala	Leu	Ile	Leu	Phe	Asn		
	210					215					220						
Ile	Thr	Gln	Leu	Ser	Gly	Lys	Gly	Leu	Ser	Lys	Ala	Met	Ser	Thr	Cys		
225					230					235					240		
Ser	Ser	His	Ile	Met	Thr	Val	Val	Leu	Phe	Tyr	Gly	Phe	Ala	Met	Leu		
			245						250					255			
Thr	His	Val	Lys	Thr	Ser	Ser	Asp	Glu	Ser	Val	Asn	Gln	Gly	Asn	Phe		
			260				265						270				
Phe	Cys	Leu	Phe	Cys	Thr	Phe	Leu	Val	Pro	Leu	Leu	Asn	Pro	Phe	Ile		
	275					280						285					
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Leu	Ala	Leu	Lys	Arg	Thr	Leu		
	290				295						300						
Arg	Arg	Leu	Thr	Val	Ser	Glu	Ser	Leu	Gly	Leu	Pro						
305					310					315							

<210> 1959  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 1959

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Ile	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr
			35				40						45		
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Cys	Val	Pro	Gln	Met	Leu
65					70					75					80
Phe	Asn	Leu	Trp	Gly	Pro	Ala	Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Ser
				85					90					95	
Val	Gln	Leu	Phe	Ile	Phe	Leu	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro	Leu
		115					120					125			
His	Tyr	Ala	Thr	Val	Ile	His	Pro	Arg	Leu	Cys	Trp	Lys	Leu	Ala	Ala
						135					140				
Val	Ala	Trp	Met	Met	Gly	Leu	Leu	Gln	Ser	Ile	Val	Gln	Thr	Pro	Pro
145					150					155					160
Thr	Leu	Lys	Leu	Pro	Phe	Cys	Pro	His	Arg	Gln	Ile	Asp	Asp	Phe	Leu
				165					170					175	
Cys	Glu	Val	Pro	Ser	Leu	Ile	Arg	Leu	Ser	Cys	Gly	Asp	Thr	Thr	Phe
			180					185					190		
Asn	Glu	Ile	Gln	Leu	Ala	Val	Ser	Ser	Val	Ile	Leu	Val	Val	Val	Pro
		195					200					205			
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Arg	Ala	Val	Met
		210				215					220				
Arg	Ile	Asn	Ser	Thr	Glu	Ala	Trp	Lys	Lys	Ala	Leu	Arg	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Ile	Val	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val
				245					250					255	
Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Gln	Glu	Arg	Gly	Lys	Phe	Phe
			260					265					270		
Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr
		275				280						285			
Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Arg	Ala	Phe	Trp	Arg	Leu	Leu	Gly
		290				295					300				
Lys	Asp	Gly	Asp	Ser	Lys	Asn	Thr								
305					310										

<210> 1960  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1960

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Gly	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Val	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr





His	Tyr	Leu	Thr	Ile	Met	Asn	His	Arg	Val	Cys	Ile	Leu	Leu	Val	Met
130						135					140				
Ala	Thr	Trp	Val	Gly	Gly	Phe	Ala	His	Ser	Met	Ala	Gln	Val	Leu	Phe
145					150					155					160
Val	Tyr	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Ala
				165					170					175	
Cys	Asp	Met	Tyr	Pro	Leu	Leu	Val	Leu	Val	Cys	Ser	Asp	Thr	Tyr	Phe
			180					185					190		
Leu	Gly	Leu	Thr	Val	Ile	Ala	Asn	Asp	Gly	Ala	Ile	Cys	Met	Val	Val
			195				200					205			
Phe	Val	Ile	Leu	Leu	Ala	Ser	Tyr	Gly	Ile	Ile	Leu	Asn	Ser	Leu	Lys
210						215					220				
Thr	His	Ser	Gln	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Met	Val	Val	Ile	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Val	Arg	Pro	Val	Ser	Asn	Phe	Pro	Val	Asp	Lys	Ser	Val	Thr	Ile	Phe
			260					265					270		
Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Ser	Glu	Ile	Lys	His	Ser	Met	Leu	Lys	Leu	Trp	Ser	Lys	Ile	Leu
290						295					300				
His	Ser	Asp	Arg	Leu	Arg	Lys	Ser	Cys	Cys						
305					310										

<210> 1962

<211> 302

<212> PRT

<213> Mus musculus

<400> 1962

Met	Asp	Ser	Pro	Arg	Asn	Val	Thr	Glu	Phe	Phe	Met	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Gln	Val	Gln	Arg	Met	Leu	Phe	Gly	Leu	Phe	Leu	Leu	Val
			20					25				30			
Phe	Leu	Val	Ser	Val	Gly	Gly	Asn	Met	Leu	Ile	Ile	Ile	Thr	Ile	Thr
		35				40						45			
Phe	Ser	Pro	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Tyr	Leu
	50					55				60					
Ser	Phe	Ile	Asp	Thr	Cys	Tyr	Ser	Ser	Cys	Met	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Ala	Asp	Ser	Leu	His	Glu	Gly	Arg	Ala	Ile	Ser	Phe	Glu	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Phe	Phe	Val	Ala	His	Leu	Leu	Gly	Gly	Thr	Glu	Ile	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Thr	Met	Thr	Arg	His	Val	Cys	Ile	Val	Leu	Val	Ala
	130					135					140				
Val	Ala	Trp	Leu	Gly	Gly	Ile	Leu	His	Ser	Thr	Ala	Gln	Leu	Phe	Leu
145					150					155					160
Val	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asn	His	Phe	Val
				165					170					175	
Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Val
			180					185					190		
Ile	Gly	Leu	Val	Val	Ala	Asn	Ser	Gly	Val	Ile	Cys	Leu	Leu	Asn	
		195				200					205				
Phe	Leu	Met	Leu	Ala	Ala	Ser	Tyr	Ile	Val	Ile	Leu	Arg	Thr	Leu	Arg

210		215		220
Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala				
225		230		235
His Phe Thr Val Val Ala Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr				240
		245		250
Met Arg Pro Ser Ser Thr Leu Ser Ile Asp Lys Ile Val Ala Val Phe				255
		260		265
Tyr Cys Ile Leu Thr Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg				270
		275		280
Asn Ala Glu Val Lys Asn Ala Met Lys Asn Leu Trp Arg Lys				285
290		295		300

<210> 1963

<211> 306

<212> PRT

<213> Mus musculus

<400> 1963

Met Ser Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr Gln Asp Pro				
1	5	10	15	
Asp Leu Gln Lys Phe Leu Phe Ile Val Cys Leu Ile Ile Tyr Leu Ile				
	20	25	30	
Thr Leu Ala Gly Asn Met Leu Ile Ser Val Thr Ile Phe Ile Ser Pro				
	35	40	45	
Ala Leu Ala Thr Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Val Ile				
	50	55	60	
Asp Gly Phe Tyr Ser Ser Ser Ile Ala Pro Lys Met Ile Tyr Asp Leu				
65	70	75	80	
Ile Ser Glu Lys Ser Thr Ile Ser Phe Asn Gly Cys Met Thr Gln Leu				
	85	90	95	
Phe Val Glu His Phe Phe Ala Ala Ala Glu Ile Ile Leu Leu Met Ser				
	100	105	110	
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Met				
	115	120	125	
Thr Ile Met Asn Arg Pro Leu Cys Val Phe Leu Val Gly Ala Ala Val				
	130	135	140	
Ile Leu Gly Phe Ile His Gly Gly Ile Gln Ile Leu Phe Met Ala Gln				
145	150	155	160	
Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Met Cys Asp Leu				
	165	170	175	
Ile Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Thr Leu Gly Pro				
	180	185	190	
Leu Ile Ala Ala Asn Ser Gly Ser Leu Cys Leu Leu Ile Phe Ser Met				
	195	200	205	
Leu Val Ala Ser Tyr Val Val Ile Leu Arg Ser Leu Arg Asn His Ser				
	210	215	220	
Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser His Val Thr				
225	230	235	240	
Val Val Val Leu Phe Phe Val Pro Cys Ser Tyr Leu Tyr Leu Arg Pro				
	245	250	255	
Met Thr Ser Phe Pro Thr Asp Lys Ala Val Thr Val Phe Cys Thr Leu				
	260	265	270	
Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Glu Glu				
	275	280	285	
Val Lys Arg Val Met Lys Lys Leu Trp Gly Arg Met Arg Lys Ala Gly				
	290	295	300	
Asp Met				
305				

<210> 1964  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1964  
 Met Gly Asn Phe Asn Thr Ser Thr Gln Glu Ser Phe Ile Leu Val Gly  
 1 5 10 15  
 Phe Ser Asp Trp Pro Gln Leu Gln Ala Phe Leu Phe Val Ile Ile Leu  
 20 25 30  
 Ile Phe Tyr Ser Leu Thr Ile Phe Gly Asn Thr Thr Ile Ile Val Leu  
 35 40 45  
 Ala Arg Leu Asp Leu Arg Leu His Lys Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln  
 65 70 75 80  
 Leu Leu Ile Asn Leu Arg Gly Leu Asp Arg Thr Ile Ser Tyr Gly Gly  
 85 90 95  
 Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Ala Ser Thr Glu Cys  
 100 105 110  
 Leu Ile Leu Val Ala Met Ala Phe Asp Arg Tyr Ala Ala Val Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Ser Ile Met Asn Pro Ile Leu Cys Arg Ala Leu  
 130 135 140  
 Ala Ile Ser Ser Trp Val Gly Gly Leu Val Asn Ser Leu Ile Gln Thr  
 145 150 155 160  
 Gly Leu Val Met Ala Met Arg Leu Cys Gly His Gln Ile Asn His Phe  
 165 170 175  
 Phe Cys Glu Met Pro Ile Phe Leu Lys Leu Ala Cys Glu Asp Thr Glu  
 180 185 190  
 Gly Thr Glu Ala Lys Met Phe Val Ala Arg Thr Ile Val Leu Val Cys  
 195 200 205  
 Pro Ala Val Leu Ile Leu Gly Ser Tyr Val His Ile Ala Lys Ala Val  
 210 215 220  
 Leu Lys Val Lys Ser Met Ala Gly Arg Arg Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Gly Ser His Leu Met Val Val Ser Leu Phe Tyr Gly Ser Gly Ile Tyr  
 245 250 255  
 Thr Tyr Leu Gln Pro Val His Arg Tyr Ser Glu Ser Lys Gly Lys Phe  
 260 265 270  
 Val Ala Leu Phe Tyr Thr Ile Val Thr Pro Met Phe Asn Pro Leu Ile  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Trp Lys Leu Leu  
 290 295 300  
 Gly Arg Gly Thr Asp Ser Gly  
 305 310

<210> 1965  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 1965  
 Met Gly Ser Phe Asn Leu Ser Leu Glu Gly Phe Leu Leu Val Gly Phe  
 1 5 10 15  
 Ser Asp Trp Pro Gln Leu Glu Leu Ile Leu Leu Val Phe Ile Ser Ile



Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Ile	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Val	Val	Ile	Val	Ala	Val
		195					200					205			
Pro	Ala	Met	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	Gln	Ile	Ala	Arg	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Val	Ala	Ala	Arg	Arg	Lys	Ala	Ala	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Thr	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Lys	Asp	Ser	Tyr	Ser	Glu	Ser	Lys	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Ala	Ala	Ala	Thr	Gly									
305					310										

<210> 1967

<211> 311

<212> PRT

<213> Mus musculus

<400> 1967

Met	Glu	Ser	Phe	Asn	Ile	Ser	Leu	Gly	Lys	Gly	Phe	Ile	Leu	Val	Gly
1				5					10				15		
Phe	Ser	Asp	Trp	Pro	Ala	Leu	Glu	Leu	Ile	Phe	Phe	Ile	Tyr	Ile	Leu
		20						25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Ala	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Arg	Met	Asp	Leu	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	His	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85					90						95	
Cys	Val	Ser	Gln	Leu	Phe	Ile	Thr	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Ser
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Met	Asn	Ile	Met	His	Pro	Val	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Ile	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Val	Ile	Val	Ala	Val

Pro	Ala	Met	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	Gln	Ile	Ala	Arg	Ala	Val
210						215					220				
Leu	Lys	Val	Lys	Ser	Val	Ala	Ala	Arg	Arg	Lys	Ala	Ala	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Thr	Tyr
				245					250					255	
Thr	Tyr	Leu	Gln	Pro	Lys	Asp	Ser	Tyr	Ser	Glu	Ser	Lys	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Ala	Ala	Ala	Thr	Gly									
305					310										

<210> 1968

<211> 311

<212> PRT

<213> Mus musculus

<400> 1968

Met	Glu	Tyr	Leu	Asn	Thr	Ser	Ser	Glu	Glu	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	His	Leu	Glu	Pro	Thr	Leu	Phe	Ala	Phe	Ile	Ser
			20					25				30			
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Val	Ile	Ile	Ile	Leu
		35					40				45				
Ser	Arg	Leu	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70				75						80
Leu	Leu	Val	Asn	Leu	Ser	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Phe	Gly	Arg
			85						90					95	
Cys	Val	Ala	Gln	Leu	Cys	Ile	Val	Leu	Ser	Leu	Gly	Gly	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Arg	Ala	Leu
		130				135					140				
Val	Val	Phe	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Ser	Leu	Val	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Gln	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Leu	Pro	Val	Leu	Leu	Lys	Met	Ala	Cys	Glu	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Val	Asn	Leu	Phe	Val	Ala	Arg	Val	Ile	Ile	Leu	Val	Cys
		195					200					205			
Pro	Leu	Leu	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Ala	Arg	Ala	Val
		210				215					220				
Leu	Asn	Ile	Arg	Ser	Met	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Ile	Val	Val	Ala	Met	Phe	Tyr	Gly	Ser	Ala	Ile	Ser
				245					250					255	
Thr	Tyr	Leu	Gln	Pro	Val	His	Arg	Tyr	Ser	Glu	Lys	Glu	Gly	Lys	Phe
			260					265					270		
Leu	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			

Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Arg									
305					310										

<210> 1969  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 1969															
Met	Gly	Ser	Phe	Asn	Ala	Ser	Leu	Gly	Lys	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Phe	Ile	Tyr	Val	Leu
			20					25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Thr	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Gln	Leu	Asp	Ile	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
		50				55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70				75						80
Leu	Leu	Ile	Asn	Ile	Ala	Ala	Gln	Asp	His	Thr	Ile	Thr	Tyr	Gly	Arg
			85						90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ser	Val	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Ser
			100					105					110		
Met	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Leu	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Ala	Gly	Leu	Val	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Arg	Tyr	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Lys	Asp	Thr	Ala
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Ile	Ile	Leu	Val	Phe
		195					200					205			
Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Ala	Arg	Ala	Val
		210				215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Met	Phe	Tyr	Gly	Ser	Thr	Ile	Tyr
				245					250					255	
Thr	Tyr	Leu	Gln	Pro	Asn	Asp	Ser	Tyr	Ser	Glu	Asn	Glu	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Arg									
305					310										

<210> 1970  
 <211> 311  
 <212> PRT  
 <213> Mus musculus



<400> 1970

Met	Gly	Thr	Phe	Asn	Phe	Ser	Ser	Asp	Arg	Ala	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	His	Leu	Glu	Leu	Val	Phe	Phe	Val	Ala	Ile	Ser
		20						25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Ser	Ser	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Arg	Leu	Asp	Leu	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75				80	
Leu	Leu	Ile	Asn	Leu	His	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Glu	Arg
			85					90						95	
Cys	Val	Ala	Gln	Leu	Leu	Ile	Phe	Leu	Ala	Leu	Ala	Ser	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Gly	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Gln	Leu	Cys	His	Thr	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Thr	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Val	Met	Pro	Leu	Cys	Gly	Tyr	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Ile	Phe	Leu	Lys	Leu	Ala	Cys	Glu	Glu	Thr	Lys
			180					185					190		
Arg	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Thr	Ile	Val	Leu	Val	Cys
		195					200					205			
Pro	Ala	Ala	Leu	Ile	Leu	Gly	Ser	Tyr	Ala	His	Ile	Thr	Arg	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Ile	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Tyr
			245						250					255	
Thr	Tyr	Leu	Gln	Pro	Thr	His	Thr	Tyr	Ser	Glu	Ser	Glu	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp	Ser	Glu									
305					310										

<210> 1971

<211> 313

<212> PRT

<213> Mus musculus

<400> 1971

Met	Met	Gln	Trp	Asn	Asn	Trp	Thr	Arg	Asn	Ser	Asp	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Phe	Phe	Asp	His	Ser	Pro	Leu	His	Thr	Phe	Phe	Phe	Ser	Leu	Ile
			20					25					30		
Leu	Ala	Ile	Phe	Phe	Met	Ala	Leu	Ile	Gly	Asn	Ser	Val	Met	Val	Ile
		35					40					45			
Leu	Ile	Tyr	Leu	Asp	Ala	Gln	Leu	His	Thr	Pro	Met	Tyr	Ile	Leu	Leu
	50					55					60				
Ser	Gln	Leu	Ser	Leu	Met	Asp	Leu	Met	Leu	Ile	Ser	Thr	Thr	Val	Pro
65					70					75					80

Gln	Thr	Ala	Phe	Asn	Phe	Leu	Ser	Gly	Asn	Lys	Ser	Ile	Ser	Met	Ala	
				85					90					95		
Gly	Cys	Gly	Val	Gln	Ile	Phe	Phe	Tyr	Val	Ser	Leu	Leu	Gly	Ala	Glu	
			100					105					110			
Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	
		115					120					125				
Tyr	Pro	Leu	Arg	Tyr	Pro	Ile	Leu	Met	Ser	His	Lys	Ile	Cys	Ser	Leu	
	130					135					140					
Met	Ala	Ala	Phe	Ser	Trp	Ile	Leu	Gly	Ser	Leu	Asp	Gly	Ile	Ile	Asp	
145					150					155					160	
Val	Ala	Ala	Val	Leu	Ser	Phe	Ser	Tyr	Cys	Gly	Thr	Arg	Glu	Ile	Pro	
			165						170					175		
His	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Leu	Leu	Thr	Ile	Ser	Cys	Ser	Asp	
			180					185					190			
Thr	Leu	Ile	Phe	Glu	Lys	Ile	Ile	Phe	Phe	Cys	Cys	Val	Ile	Met	Leu	
		195				200						205				
Ile	Phe	Pro	Val	Val	Ile	Val	Ile	Ala	Ser	Tyr	Ile	Cys	Val	Ile	Leu	
	210					215					220					
Ala	Val	Ile	Lys	Met	Ala	Ser	Ala	Glu	Ser	Arg	His	Lys	Ala	Phe	Ala	
225					230					235					240	
Thr	Cys	Ser	Ser	His	Val	Met	Val	Val	Val	Ile	Tyr	Tyr	Gly	Ala	Ala	
				245					250					255		
Met	Phe	Ile	Tyr	Met	Gln	Pro	Ser	Ser	Ser	Arg	Ser	Pro	Asn	Gln	Asp	
			260					265					270			
Lys	Leu	Val	Ser	Ala	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	
		275					280					285				
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ala	Arg	Ala	Phe	Met	Lys	
	290					295					300					
Val	Leu	Arg	Met	Asp	Lys	Ala	Ala	Gly								
305					310											

<210> 1972

<211> 320

<212> PRT

<213> Mus musculus

<400> 1972

Met	Gln	Ile	Ser	Ser	Ser	Ile	Ile	Ser	Pro	Arg	Met	Asn	Cys	Ser	Gln	
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Ala	Pro	Gly	Phe	Ile	Leu	Leu	Gly	Leu	Pro	Arg	Glu	Pro	Glu	Lys	Trp	
			20					25					30			
Gln	His	Phe	Phe	Ile	Ile	Phe	Leu	Gly	Leu	Tyr	Leu	Leu	Gly	Leu	Leu	
		35				40					45					
Gly	Asn	Leu	Leu	Leu	Leu	Leu	Ala	Ile	Gly	Ser	Asp	Val	His	Leu	His	
	50				55						60					
Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu	Ser	Leu	Val	Asp	Leu	Cys	
65					70					75					80	
Phe	Ile	Thr	Thr	Thr	Ala	Pro	Lys	Thr	Leu	Glu	Thr	Trp	Trp	Thr	Gly	
				85				90						95		
Asp	Gly	Ser	Ile	Ser	Phe	Ser	Gly	Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Phe	
			100					105					110			
Gly	Val	Phe	Ala	Asp	Met	Asp	Asn	Leu	Leu	Leu	Ala	Val	Met	Ala	Ile	
		115					120					125				
Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His	Pro	Leu	Leu	Tyr	Pro	Leu	Leu	Met	
	130					135					140					
Thr	Pro	Cys	Arg	Cys	Glu	Val	Leu	Val	Ser	Gly	Ser	Trp	Gly	Ile	Ala	
145					150					155					160	
His	Cys	Val	Ser	Leu	Met	Tyr	Thr	Leu	Leu	Leu	Ser	Gln	Leu	Tyr	Phe	

His	Thr	Asn	Gln	165 Glu	Ile	Pro	His	Phe	170 Phe	Cys	Asp	Cys	175 Arg	Pro	Leu
Leu	Leu	Leu	180 Ser	Cys	Ser	Asp	Thr	185 His	Leu	Asn	Glu	190 Val	Leu	Met	Met
Ala	Leu	Ala	195 Gly	Val	Leu	Gly	200 Val	Ser	Ala	Val	Leu	205 Cys	Ile	Val	Ser
Ser	Tyr	Gly	Cys	Ile	Phe	Tyr	Ala	Val	Ala	Arg	Val	Pro	Ser	Ala	Gln
225	Gly	Lys	Arg	Lys	230 Ala	Leu	Thr	Thr	Cys	Ser	Ser	His	Leu	Ser	Val
Gly	Lys	Arg	Lys	245 Ala	Leu	Thr	Thr	Cys	Ser	Ser	His	Leu	Ser	Val	Val
Leu	Leu	Phe	Tyr	Ser	Thr	Val	Phe	Ala	Thr	Tyr	Leu	Lys	Pro	Pro	Ser
Thr	Ser	His	Ser	Ser	Gly	Glu	Val	Val	Ala	Ala	Val	Met	Tyr	Thr	Leu
Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
Val	Lys	Ser	Ser	Leu	Arg	Arg	Val	Leu	Asn	Ile	Glu	Lys	Ser	Gln	Asp
305					310					315					320

<210> 1973

<211> 321

<212> PRT

<213> Mus musculus

<400> 1973

Met	Trp	Ile	His	Leu	Glu	Phe	Met	Glu	Asn	His	Lys	Asn	Val	Thr	Glu
1				5					10					15	
Phe	Ile	Phe	Met	Gly	Leu	Trp	Gln	Asn	Arg	Gln	Ile	Glu	Leu	Leu	Phe
			20					25					30		
Phe	Leu	Leu	Phe	Leu	Leu	Cys	Tyr	Leu	Ala	Ile	Leu	Met	Gly	Asn	Ser
			35				40					45			
Val	Ile	Leu	Phe	Thr	Ile	Thr	Tyr	Ser	His	Leu	Ile	Glu	Gln	Pro	Met
			50			55					60				
Tyr	Tyr	Phe	Leu	Cys	His	Leu	Ser	Leu	Met	Asp	Leu	Cys	Tyr	Thr	Ser
65					70					75					80
Thr	Val	Ile	Pro	Arg	Leu	Val	Arg	Asp	Leu	Ala	Thr	Thr	Arg	Lys	Asn
				85					90					95	
Ile	Ser	Tyr	Asn	Glu	Cys	Met	Thr	Gln	Leu	Phe	Thr	Ala	His	Leu	Leu
			100					105					110		
Ala	Gly	Val	Glu	Ile	Phe	Ile	Leu	Val	Ser	Met	Ala	Leu	Asp	Arg	Tyr
			115				120					125			
Val	Ala	Ile	Val	Lys	Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Arg	Lys
			130			135					140				
Arg	Cys	Asp	Met	Leu	Ile	Val	Thr	Ala	Trp	Ile	Leu	Gly	Phe	Trp	His
145					150					155					160
Ser	Ile	Ala	Leu	Leu	Leu	Met	Val	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro
				165					170					175	
Asn	His	Ile	Asn	His	Tyr	Leu	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Lys	Leu
			180					185					190		
Val	Cys	Lys	Asp	Val	His	Val	Val	Ser	Ile	Leu	Ala	Ile	Ala	Asn	Ser
			195				200					205			
Gly	Met	Val	Leu	Phe	Ala	Ile	Phe	Ile	Val	Leu	Leu	Ala	Ser	Tyr	Ile
			210			215					220				
Leu	Ile	Leu	Tyr	Ser	Leu	Arg	Thr	Arg	Ser	Ser	Ala	Gly	Lys	Arg	Lys
225					230					235					240
Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe
				245					250					255	



<210> 1975  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 1975  
 Met Glu Ile Lys Asn Asn Val Thr Glu Phe Val Leu Leu Gly Leu Thr  
 1 5 10 15  
 Gln Asn Leu His Leu Gln Lys Ile Val Phe Val Val Phe Leu Val Ile  
 20 25 30  
 Tyr Val Phe Ser Val Val Gly Asn Leu Leu Ile Val Ile Thr Ile Thr  
 35 40 45  
 Asn Ser Gln Leu Leu Gly Tyr Pro Met Tyr Tyr Phe Leu Ala Tyr Leu  
 50 55 60  
 Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Thr Pro Lys Val Ile  
 65 70 75 80  
 Ala Asp Ser Leu His Lys Arg Lys Ser Ile Lys Phe Asn Gly Cys Met  
 85 90 95  
 Thr Gln Val Phe Ala Glu His Phe Ile Gly Gly Thr Glu Val Ile Leu  
 100 105 110  
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ala Thr Ile Met Asn Arg Gln Leu Cys Asn Ile Leu Val Gly  
 130 135 140  
 Val Ser Trp Val Gly Gly Phe Leu His Gly Gly Ile Gln Ile Leu Phe  
 145 150 155 160  
 Ile Ile Gly Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met  
 165 170 175  
 Cys Asp Leu Asn Pro Leu Leu Asp Leu Ala Cys Ile Asp Thr His Ile  
 180 185 190  
 Leu Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn  
 195 200 205  
 Phe Leu Leu Leu Leu Val Ser Tyr Leu Val Ile Leu Asn Ser Leu Arg  
 210 215 220  
 Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Val Ser  
 225 230 235 240  
 His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Val Tyr  
 245 250 255  
 Met Arg Pro Val Ala Thr Leu Pro Ile Asp Lys Ala Val Thr Leu Phe  
 260 265 270  
 Tyr Thr Met Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Ala Gln Met Lys Asn Ala Ile Trp Lys Leu Phe Ser Val Lys Val  
 290 295 300  
 Gln Ser Asp Asp Lys  
 305

<210> 1976  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1976  
 Met Trp Leu Asn Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Gln Asp Pro Phe Arg Lys Lys Ile Leu Phe Val Val Phe Leu Leu Phe  
 20 25 30

Tyr	Met	Gly	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ala	Thr	Ile	Lys
		35					40					45			
Thr	Ser	Gln	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Leu	Ser	Asp	Thr	Cys	Phe	Ser	Thr	Thr	Ile	Ala	Pro	Arg	Thr	Ile
65					70					75					80
Val	Asp	Ser	Leu	Leu	Asn	Glu	Ala	Ser	Ile	Ser	Phe	Thr	Glu	Cys	Ile
				85					90					95	
Ile	Gln	Val	Phe	Thr	Phe	His	Phe	Phe	Gly	Cys	Leu	Glu	Ile	Phe	Ile
			100					105					110		
Leu	Ile	Leu	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Gly	Val	Leu	Val	Ala
	130					135					140				
Ile	Ala	Trp	Val	Gly	Ser	Cys	Val	His	Ser	Leu	Val	Gln	Ile	Phe	Leu
145					150					155					160
Ala	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe
				165					170					175	
Cys	Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Leu
			180					185					190		
Ile	Asn	Leu	Leu	Leu	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Thr	Val	Ser
	195						200					205			
Phe	Leu	Met	Leu	Ile	Val	Ser	Tyr	Val	Ile	Ile	Leu	Arg	Ser	Leu	Arg
	210					215					220				
Asn	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ile	Ser
225					230					235					240
His	Ile	Ile	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr
				245					250					255	
Thr	Arg	Pro	Ala	Thr	Thr	Phe	Pro	Met	Asp	Lys	Met	Ile	Ala	Ile	Phe
			260					265					270		
Tyr	Ser	Ile	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	Arg	Lys	Lys	Val
	290					295					300				
Val	Ser	Asp	Asp	Arg	Lys										
305					310										

<210> 1977

<211> 318

<212> PRT

<213> Mus musculus

<400> 1977

Met	Ala	Ser	Arg	Thr	Tyr	Ser	Met	Glu	Glu	Val	Asn	Asn	Val	Thr	Glu
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Phe	Ile	Phe	Leu	Gly	Leu	Ser	Gln	Asn	Pro	Glu	Val	Glu	Lys	Val	Cys
			20					25					30		
Phe	Val	Val	Phe	Ser	Phe	Phe	Tyr	Met	Val	Ile	Leu	Leu	Gly	Asn	Leu
		35					40					45			
Leu	Ile	Met	Leu	Thr	Val	Cys	Ser	Gly	Asn	Leu	Phe	Lys	Phe	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Asn	Phe	Leu	Ser	Phe	Val	Asp	Ile	Cys	Tyr	Ser	Ser
65					70					75					80
Val	Thr	Ala	Pro	Lys	Met	Ile	Ile	Asp	Leu	Leu	Val	Lys	Lys	Lys	Thr
				85					90					95	
Ile	Ser	Tyr	Val	Gly	Cys	Met	Leu	Gln	Leu	Phe	Val	Val	His	Phe	Phe
			100					105					110		
Gly	Cys	Thr	Glu	Ile	Phe	Ile	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr



Ile	Phe	Ser	Phe	Leu	Leu	Val	Ser	Tyr	Val	Val	Ile	Leu	Phe	Ser	Leu
	210					215					220				
Arg	Thr	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Leu	Ile
				245					250					255	
Tyr	Ala	Arg	Pro	Thr	Ser	Pro	Phe	Ser	Leu	Glu	Lys	Asn	Val	Phe	Ile
			260					265					270		
Phe	Ala	Asp	Val	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Thr	Phe
		275					280					285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Trp	Arg	Ser	Leu
	290					295					300				
Leu	Val	Ala	Pro	Asp	Ile	Leu	Lys								
305					310										

<210> 1979

<211> 310

<212> PRT

<213> Mus musculus

<400> 1979

Met	Gln	Leu	Asn	Ile	Asn	Val	Thr	Glu	Val	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	Pro	Ser	Arg	Lys	Asn	Ile	Val	Phe	Ala	Ile	Phe	Leu	Leu	Phe
			20					25					30		
Tyr	Met	Gly	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Thr	Val	Lys
		35					40					45			
Thr	Ser	Gln	Ala	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Tyr	Leu
	50					55					60				
Ser	Leu	Ser	Asp	Thr	Cys	Phe	Ser	Thr	Thr	Val	Ala	Pro	Arg	Thr	Ile
65					70					75					80
Val	Asp	Ser	Leu	Gln	Lys	Glu	Ala	Ser	Ile	Ser	Phe	Thr	Glu	Cys	Ile
				85					90					95	
Ile	Gln	Ile	Phe	Thr	Phe	His	Phe	Phe	Gly	Cys	Leu	Glu	Ile	Phe	Ile
			100					105					110		
Leu	Ile	Leu	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115						120					125			
His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Gly	Val	Leu	Val	Ala
	130					135					140				
Ile	Ala	Trp	Met	Gly	Ser	Cys	Val	His	Ser	Leu	Val	Gln	Ile	Phe	Leu
145				150						155					160
Ala	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe
				165					170					175	
Cys	Asp	Leu	Gln	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Leu
			180					185					190		
Ile	Asn	Leu	Leu	Leu	Val	Ser	Asn	Ser	Gly	Ala	Ile	Cys	Thr	Val	Ser
	195						200					205			
Phe	Leu	Val	Leu	Met	Phe	Ser	Tyr	Val	Ile	Ile	Leu	His	Ser	Leu	Arg
	210					215					220				
Asn	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ile	Ser
225					230					235					240
His	Ile	Ile	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr
				245					250					255	
Thr	Arg	Pro	Ala	Thr	Thr	Phe	Pro	Met	Asp	Lys	Met	Ile	Ser	Ile	Phe
			260					265					270		
Tyr	Ser	Ile	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275					280						285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Met	Lys	Lys	Leu	Trp	Arg	Lys	Lys	Ile



290		295		300
Val	Ser	Asp	Asp	Lys
305				Lys
				310

<210> 1980  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1980

Met	Ala	Trp	Ser	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Val	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	Asp	Asp	Pro	Leu	Ile	Pro	Ala	Leu	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Leu	Thr	Met	Thr	Gly	Asn	Leu	Thr	Met	Leu	Leu	Val
		35					40					45			
Ile	Thr	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Val	Pro	Lys
65					70				75						80
Leu	Leu	Lys	Asp	Leu	Leu	Ser	Ala	Lys	Lys	Thr	Ile	Ser	Ile	Glu	Gly
				85					90					95	
Cys	Leu	Ala	Gln	Val	Phe	Phe	Val	Phe	Phe	Ser	Ser	Gly	Thr	Glu	Ala
			100					105					110		
Cys	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	Leu	Tyr	Gly	Gln	Val	Met	Arg	Asn	Glu	Leu	Cys	Val	Arg	Leu
	130					135					140				
Val	Val	Ile	Ser	Trp	Gly	Val	Ala	Ser	Leu	Asn	Ala	Thr	Ile	Ile	Val
145					150					155					160
Leu	Leu	Ala	Val	Asn	Leu	Asp	Phe	Cys	Gly	Ala	Gln	Thr	Ile	His	His
				165					170					175	
Tyr	Thr	Cys	Glu	Leu	Pro	Ala	Leu	Phe	Pro	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Ser	Ile	Thr	Val	Val	Val	Leu	Leu	Cys	Ser	Ser	Leu	Leu	His	Gly	Leu
		195				200						205			
Gly	Thr	Phe	Ile	Pro	Ile	Phe	Phe	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ala
	210					215					220				
Ile	Leu	Ser	Ile	Ser	Ser	Thr	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Ala	Ala	Val	Thr	Leu	Phe	Phe	Gly	Ser	Gly	Phe
				245					250					255	
Leu	Cys	Tyr	Leu	Met	Pro	Pro	Ser	Gly	Ser	Ser	Leu	Asp	Leu	Leu	Leu
			260					265					270		
Ser	Leu	Gln	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Ser	Leu	Lys	Asn	Gln	Glu	Val	Lys	Ala	Ala	Val	Gln	Arg	Thr	Leu	Arg
	290					295					300				
Lys	Tyr	Leu	Leu												
305															

<210> 1981  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 1981

Met	Val	Asn	Gln	Ser	Ser	Pro	Val	Val	Phe	Phe	Met	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	His	Pro	Gln	Leu	Glu	Lys	Val	Leu	Phe	Val	Val	Val	Leu	Cys	Ser
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Ile	Leu	Leu	Leu	Ser	Thr
		35					40					45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Thr	Cys	Val	Pro	Gln	Met	Leu
65					70					75					80
Phe	Asn	Leu	Trp	Gly	Pro	Ala	Lys	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Phe
				85					90					95	
Val	Gln	Leu	Phe	Ile	Phe	Met	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln	Pro	Leu
		115					120					125			
His	Tyr	Ala	Thr	Lys	Ile	Asn	Pro	His	Leu	Cys	Arg	Gln	Leu	Ala	Gly
	130					135					140				
Ile	Ala	Trp	Ala	Ile	Gly	Leu	Val	Gln	Ser	Ile	Val	Gln	Thr	Pro	Pro
145					150					155					160
Thr	Leu	Lys	Leu	Pro	Phe	Cys	Ser	Tyr	Arg	Gln	Ile	Asp	Asn	Phe	Leu
				165					170				175		
Cys	Glu	Val	Pro	Ser	Leu	Ile	Gln	Leu	Ser	Cys	Gly	Asp	Thr	Thr	Tyr
			180					185				190			
Asn	Glu	Ile	Gln	Met	Ala	Val	Ala	Ser	Ile	Phe	Ile	Val	Val	Val	Pro
		195					200					205			
Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Ala	Ile	Ala	Arg	Ala	Val	Leu
	210					215					220				
Lys	Ile	Ser	Ser	Ala	Lys	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Ile	Val	Val	Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val
				245					250				255		
Tyr	Leu	Gln	Pro	Lys	Asn	Pro	Tyr	Ala	Arg	Glu	Arg	Gly	Lys	Phe	Phe
			260					265					270		
Gly	Leu	Phe	Tyr	Ala	Val	Gly	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Val	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Gly	Gly	Lys	Lys	Ser	Ile	Leu	Glu	Ala	Ala	Lys
	290					295					300				
Glu	Arg														
305															

<210> 1982  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 1982

Met	Gly	Gln	Arg	Ser	Asn	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asp	His	Val	Gly	Gln	Arg	Ala	Leu	Phe	Val	Met	Phe	Leu	Leu	Ile
			20					25					30		
Tyr	Ile	Val	Thr	Ile	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile
		35					40					45			
Ala	Ser	Pro	Ser	Leu	Gly	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Tyr	Leu
	50					55					60				
Ser	Leu	Leu	Asp	Ala	Val	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Met
65					70					75					80
Val	Asp	Leu	Leu	Cys	Asp	Arg	Lys	Thr	Ile	Ser	Phe	Ser	Ala	Cys	Met

				85					90					95			
Thr	Gln	Leu	Phe	Leu	Glu	His	Leu	Leu	Gly	Gly	Ala	Glu	Val	Phe	Leu		
			100						105					110			
Leu	Met	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
		115					120					125					
His	Tyr	Leu	Ile	Ile	Met	Asn	Arg	Arg	Val	Cys	Phe	Leu	Leu	Leu	Val		
	130					135					140						
Val	Ser	Trp	Ala	Gly	Gly	Leu	Ala	His	Ser	Val	Ala	Gln	Leu	Leu	Phe		
145				150						155					160		
Val	Tyr	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Ile		
			165						170					175			
Cys	Asp	Met	Tyr	Pro	Leu	Leu	Gly	Leu	Ala	Cys	Thr	Asp	Thr	His	Ile		
		180						185					190				
Ile	Gly	Leu	Thr	Val	Val	Ala	Asn	Gly	Gly	Ala	Ile	Cys	Met	Leu	Val		
	195						200					205					
Phe	Ile	Ile	Leu	Ile	Ile	Ser	Tyr	Gly	Ile	Ile	Leu	Arg	Ser	Leu	Lys		
	210					215					220						
Thr	His	Ser	Gln	Glu	Gly	Arg	Gln	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser		
225				230					235						240		
His	Ile	Met	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr		
			245					250						255			
Val	Arg	Pro	Val	His	Asn	Phe	Pro	Ile	Asp	Lys	Ser	Ile	Thr	Val	Phe		
		260						265					270				
Tyr	Thr	Ile	Val	Thr	Pro	Ile	Leu	Asn	Pro	Leu	Ile	Tyr	Ala	Leu	Arg		
	275					280					285						
Asn	Ser	Glu	Met	Lys	Arg	Ser	Met	Glu	Asn	Leu	Leu	Tyr	Lys	Val	Phe		
	290					295					300						
Pro	Arg	Asp	Lys	Ile	Thr	Met	Ser	Phe	His								
305					310												

<210> 1983

<211> 313

<212> PRT

<213> Mus musculus

<400> 1983

Met	Glu	Leu	His	Ser	Pro	Pro	Ser	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu		
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Gly	Leu	Thr	Gln	Asn	Pro	Arg	Leu	Gln	Lys	Ile	Leu	Phe	Ile	Val	Phe		
			20					25					30				
Leu	Phe	Val	Phe	Leu	Phe	Thr	Val	Leu	Ala	Asn	Leu	Leu	Ile	Val	Leu		
		35					40					45					
Thr	Ile	Ser	Phe	Ser	Pro	Thr	Leu	Ser	Ala	Pro	Met	Tyr	Phe	Phe	Leu		
	50					55					60						
Thr	Tyr	Leu	Ser	Phe	Ile	Asp	Ala	Phe	Tyr	Thr	Ser	Val	Thr	Thr	Pro		
65					70				75						80		
Lys	Met	Ile	Ile	Asp	Leu	Leu	Tyr	Gln	Arg	Arg	Thr	Ile	Ser	Leu	Ala		
				85					90					95			
Gly	Cys	Leu	Thr	Gln	Leu	Phe	Val	Glu	His	Phe	Leu	Gly	Gly	Ser	Glu		
			100					105					110				
Ile	Ile	Leu	Leu	Ile	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys		
	115						120					125					
Lys	Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Arg	Gln	Gly	Leu	Cys	Arg	Leu		
	130					135					140						
Leu	Val	Val	Val	Ala	Trp	Ile	Gly	Gly	Ile	Leu	His	Ala	Thr	Met	Gln		
145					150					155					160		
Ile	Phe	Phe	Met	Ile	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp		
				165					170					175			

His	Phe	Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Arg	Asp
			180					185					190		
Thr	His	Lys	Leu	Gly	Ile	Ile	Val	Ala	Ala	Asn	Ser	Gly	Ala	Met	Cys
		195					200					205			
Phe	Leu	Ile	Phe	Thr	Met	Leu	Leu	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Arg
	210					215					220				
Ser	Leu	Lys	Ser	His	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	
225					230				235					240	
Cys	Gly	Ser	His	Phe	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile
				245					250					255	
Phe	Thr	Tyr	Met	Arg	Pro	Val	Thr	Thr	Tyr	Pro	Val	Asp	Lys	Leu	Val
			260					265					270		
Thr	Val	Phe	Phe	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Thr	Ala	Arg	Asn	Thr	Glu	Val	Lys	Asn	Ala	Met	Arg	Asn	Leu	Leu	Lys
	290					295					300				
Arg	Gln	Val	Thr	Tyr	Pro	Val	Leu	Lys							
305					310										

<210> 1984

<211> 316

<212> PRT

<213> Mus musculus

<400> 1984

Met	Glu	Pro	Trp	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
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Ile	Leu	Asp	Gly	Ser	Gly	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Ala
			20					25					30		
Ala	Leu	Tyr	Met	Leu	Ala	Leu	Ile	Ser	Asn	Gly	Met	Leu	Ile	Leu	Val
		35					40					45			
Ile	Thr	Met	Asp	Ile	Tyr	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Glu
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Ala	Ser	Val	Ile	Ser	Pro	Lys
65					70					75					80
Ala	Val	Met	Asp	Phe	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Thr	Phe	Gly	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Arg	Pro	Ser	Ile	Cys	Trp	Leu	Met
	130					135					140				
Val	Ala	Ile	Ser	Trp	Ile	Pro	Ala	Ser	Leu	Ser	Ala	Leu	Gly	Tyr	Thr
145					150					155					160
Ile	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Glu	Ile	Arg	His
				165					170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Arg	Tyr	Gln	Leu	Met	Val	Tyr	Leu	Met	Gly	Val	Thr	Leu	Leu	Ile
		195					200					205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	Lys	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Tyr	Tyr	Gly	Pro	Leu	Thr
				245					250					255	
Val	Met	Tyr	Ile	Leu	Pro	Ser	Ser	Tyr	His	Ser	Ser	Lys	Gln	Glu	Asn

Ile	Leu	Ser	Phe	Leu	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275						265					270		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ser	Gly	Ala	Leu	Lys	Arg	Val
	290					295					300				
Leu	Gly	Lys	Arg	Leu	Leu	Ser	Thr	His	Pro	Asn	Phe				
305					310					315					

<210> 1985  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1985

Met	Glu	Val	Cys	Asn	Ser	Thr	Leu	Gly	Ser	Gly	Phe	Ile	Leu	Val	Gly
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Ile	Leu	Asp	Asp	Ser	Gly	Phe	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Thr
			20					25					30		
Ala	Leu	Tyr	Phe	Leu	Ala	Ile	Thr	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
		35					40					45			
Ile	Thr	Met	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Trp
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys	
65					70				75					80	
Ala	Ile	Leu	Asp	Tyr	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
			85					90						95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Glu	Leu	Thr	Leu	Gly	Ser	Ala	Glu	Asp
			100				105						110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Thr	Ile	Leu	Met	Ser	Gln	Lys	Val	Cys	Cys	Leu	Met
	130					135					140				
Ile	Ala	Thr	Ser	Trp	Ile	Leu	Ala	Ser	Leu	Ser	Ala	Leu	Gly	Tyr	Ser
145					150					155					160
Ile	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Gln	Ile	Arg	His
			165						170					175	
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Thr	Tyr	Glu	Leu	Met	Val	Tyr	Val	Met	Gly	Val	Thr	Leu	Leu	Ile
		195					200					205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Trp	Tyr	Gly	Gly	Ala	Ile
			245						250					255	
Val	Met	Tyr	Val	Leu	Pro	Ser	Ser	Phe	His	Ser	Pro	Lys	Gln	Asp	Asn
			260					265					270		
Ile	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Val
	290					295					300				
Leu	Gly	Lys	Arg	Phe	Ser	Val	Gln	Ser	Thr	Phe					
305					310					315					

<210> 1986  
 <211> 315

<212> PRT

<213> Mus musculus

<400> 1986

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Met Leu Met Ile Gln Trp Asn Asn Trp Thr Arg Asn Ser Asp Phe Ile
 1      5      10
Leu Leu Gly Leu Phe Asp His Ser Pro Leu His Thr Phe Phe Ser
 20      25      30
Leu Ile Leu Gly Ile Phe Phe Met Ala Phe Ile Gly Asn Ser Ile Met
 35      40      45
Val Ile Leu Ile Tyr Leu Asp Ala His Leu His Thr Pro Met Tyr Ile
 50      55      60
Leu Leu Ser Gln Leu Ser Leu Met Asp Leu Met Leu Ile Cys Thr Thr
 65      70      75      80
Val Pro Gln Met Ala Phe Asn Phe Leu Ser Gly Asn Lys Ser Ile Ser
 85      90      95
Met Val Gly Cys Gly Ile Gln Ile Phe Phe Tyr Val Ser Leu Leu Gly
100      105      110
Ala Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala
115      120      125
Ile Cys Tyr Pro Leu Arg Tyr Pro Ile Leu Met Ser Asp Lys Ile Cys
130      135      140
Gly Leu Met Ala Ala Ser Ser Trp Val Leu Gly Ser Leu Asp Gly Ile
145      150      155      160
Ile Glu Val Ala Ala Ala Leu Ser Phe Ser Tyr Cys Gly Ala Arg Glu
165      170      175
Ile Pro His Phe Phe Cys Asp Val Pro Ala Leu Leu Thr Leu Ser Cys
180      185      190
Ser Asn Thr Leu Ile Phe Glu Arg Ile Ile Phe Phe Cys Cys Val Ile
195      200      205
Met Leu Thr Leu Pro Val Ala Ile Ile Ile Ala Ser Tyr Thr Arg Val
210      215      220
Ile Leu Thr Val Leu His Met Ser Ser Ala Glu Ser Arg His Lys Ala
225      230      235      240
Phe Ala Thr Cys Ser Ser His Leu Met Val Val Gly Met Tyr Tyr Gly
245      250      255
Ala Ala Met Phe Ile Tyr Met Arg Pro Ser Ser Gly Arg Ser Pro Thr
260      265      270
Gln Asp Lys Ile Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu
275      280      285
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Ala Arg Ala Phe
290      295      300
Met Lys Val Leu Gly Ile Asp Lys Ala Ala Ala
305      310      315
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<210> 1987

<211> 312

<212> PRT

<213> Mus musculus

<400> 1987

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Met Glu Gly Thr Asn Arg Ser Val Val Ser Glu Phe Met Phe Val Gly
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Leu Thr Asn Ser Trp Lys Met Gln Val Leu Leu Phe Val Phe Ala Ser
 20      25      30
Val Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Ile Phe Thr
 35      40      45
Val Ala Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
```

50	55	60
Asn Leu Ser Phe Ile Asp	Leu Gly Val Ser Cys	Val Thr Cys Pro Lys
65	70	80
Met Ile Tyr Asp	Leu Phe Arg Lys His Lys	Val Ile Ser Phe Arg Gly
	85	95
Cys Ile Thr Gln	Ile Phe Phe Ile His Val	Ile Gly Gly Val Glu Val
	100	110
Val Leu Leu Ile	Gly Met Ala Tyr Asp Arg Tyr	Val Ala Ile Cys Lys
	115	125
Pro Leu His Tyr	Leu Thr Ile Met Asn Ala Lys	Met Cys Ile Phe Ile
	130	140
Leu Val Ser Ala	Trp Val Val Gly Leu Met His	Ser Leu Val Gln Phe
145	150	160
Val Tyr Ile Val	Asn Leu Pro Phe Cys Gly	Pro Asn Ile Leu Asp Ser
	165	175
Phe Tyr Cys Asp	Leu Pro Arg Phe Ile Arg	Leu Ala Cys Val Asp Thr
	180	190
Asn Gln Leu Glu	Leu Met Val Ser Ala Asn	Ser Gly Phe Ile Ser Val
	195	205
Gly Ser Phe Phe	Ile Leu Val Ile Ser Tyr Ile	Val Ile Ile Val Thr
	210	220
Val Gln Lys His	Ser Ser Ser Gly Ser Ser	Lys Ala Leu Ser Thr Leu
225	230	240
Ser Ala His Ile	Ser Val Val Val Leu Phe	Phe Gly Pro Leu Ile Phe
	245	255
Val Tyr Thr Trp	Pro Ser Pro Ser Thr His	Leu Asp Lys Tyr Leu Ala
	260	270
Ile Phe Asp Ala	Val Gly Thr Pro Phe Leu	Asn Pro Val Ile Tyr Thr
	275	285
Leu Arg Asn Gln	Asp Met Lys Thr Ala Met	Lys Arg Val Cys Arg Gln
	290	300
Leu Leu Lys Tyr	Gly Lys Ile Ser	
305	310	

<210> 1988

<211> 312

<212> PRT

<213> Mus musculus

<400> 1988

Met Gly Glu Ala	Asn Cys Ser Val Val	Ser Glu Phe Val Phe	Leu Gly
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Leu Ser Asn Ser	Trp Ala Ile Gln Leu	Phe Leu Phe Phe	Phe Ser Cys
	20	25	30
Ile Phe Tyr Val	Ala Ser Leu Leu Gly	Asn Phe Leu Ile	Val Leu Thr
	35	40	45
Val Thr Ser Asp	Pro Gln Leu Gln Ser	Pro Met Tyr Phe	Leu Leu Gly
	50	55	60
Asn Leu Ser Ile	Ile Asp Leu Ile Phe	Cys Ser Ser Thr	Thr Pro Lys
65	70	75	80
Met Ile Tyr Asp	Leu Phe Arg Arg His	Lys Thr Ile Ser	Phe Gly Gly
	85	90	95
Cys Ile Thr Gln	Ile Phe Phe Ile His	Ala Val Gly Gly	Thr Glu Met
	100	105	110
Val Leu Leu Ile	Ala Met Ala Phe Asp	Arg Tyr Val Ala	Ile Cys Lys
	115	120	125
Pro Leu His Tyr	Leu Thr Ile Met Ser	Pro Gln Lys Cys	Ile Leu Ile
	130	135	140

Leu	Val	Ala	Ser	Trp	Ile	Ile	Gly	Phe	Ile	His	Ser	Val	Thr	Gln	Leu
145					150				155						160
Ser	Phe	Val	Val	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Leu	Asp	Ser
				165					170						175
Phe	Phe	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Val	Asp	Thr
			180					185					190		
Tyr	Thr	Leu	Gly	Phe	Met	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Val
		195					200					205			
Ala	Ser	Phe	Leu	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Val	Thr
	210					215					220				
Val	Gln	Lys	Lys	Ser	Leu	Gly	Ser	Leu	Gly	Lys	Ala	Leu	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Val	Ile	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Leu	Ile	Phe
				245					250						255
Phe	Tyr	Thr	Trp	Pro	Phe	Pro	Thr	Ser	His	Leu	Asp	Lys	Phe	Leu	Ala
			260					265					270		
Ile	Phe	Asp	Ala	Val	Ile	Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr
		275				280						285			
Leu	Arg	Asn	Lys	Glu	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Cys	Ser	Gln
	290					295					300				
Phe	Val	Asn	Tyr	Asn	Lys	Ile	Ser								
305					310										

<210> 1989

<211> 316

<212> PRT

<213> Mus musculus

<400> 1989

Met	Asp	Gly	Gly	Asn	His	Ser	Val	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
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Leu	Thr	Asn	Ser	Trp	Arg	Ile	Gln	Ile	Leu	Leu	Phe	Leu	Phe	Phe	Thr
			20				25					30			
Val	Phe	Tyr	Val	Ala	Ser	Met	Leu	Gly	Asn	Leu	Leu	Ile	Val	Leu	Thr
		35					40					45			
Ile	Ile	Ser	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Thr	Gly	Val	Ser	Ser	Ile	Ala	Thr	Pro	Lys
65					70					75					80
Met	Ile	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Leu	Asn	Gly
			85						90					95	
Cys	Ile	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Val	Gly	Gly	Thr	Glu	Met
			100					105					110		
Val	Leu	Leu	Ile	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys
	115					120						125			
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Leu	Arg	Met	Cys	Ile	Val	Leu
	130					135					140				
Leu	Ala	Leu	Ala	Trp	Ile	Ile	Gly	Leu	Ile	His	Ser	Val	Ala	Gln	Leu
145					150					155					160
Ala	Phe	Val	Val	Asn	Leu	Pro	Phe	Cys	Gly	Ala	Asn	Lys	Met	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Phe	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Tyr	Arg	Leu	Glu	Phe	Leu	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Met
		195					200					205			
Ala	Thr	Phe	Phe	Ile	Leu	Ile	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Val	Thr
	210					215					220				
Val	Arg	Lys	His	Ser	Ser	Gly	Ala	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu



225					230					235				240	
Ser	Ala	His	Ile	Thr	Val	Val	Val	Phe	Phe	Phe	Gly	Pro	Cys	Ile	Ile
				245					250					255	
Val	Tyr	Val	Trp	Pro	Phe	Pro	Thr	Leu	Pro	Ile	Asp	Lys	Phe	Leu	Ala
			260					265						270	
Ile	Phe	Asp	Ala	Ile	Ile	Thr	Pro	Ser	Met	Asn	Pro	Val	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Glu	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Phe	Ala	Arg
	290					295					300				
Ala	Leu	Ser	Phe	Ile	Asp	Ser	Leu	Arg	Asp	Ser	Asn				
305					310					315					

<210> 1990  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 1990

Met	Met	Ile	Leu	Met	Ser	Glu	Ala	Met	Tyr	Gly	Met	Asn	Cys	Ser	Val
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Val	Ser	Glu	Phe	Val	Phe	Leu	Gly	Ile	Thr	Asn	Ile	Trp	Glu	Val	Gln
			20					25					30		
Phe	Leu	Leu	Phe	Phe	Phe	Thr	Leu	Leu	Phe	Tyr	Phe	Ala	Ser	Met	Ile
		35					40					45			
Gly	Asn	Leu	Val	Ile	Val	Leu	Thr	Val	Thr	Leu	Asp	Pro	His	Leu	Asn
	50					55				60					
Ser	Pro	Leu	Tyr	Phe	Leu	Leu	Ala	Asn	Leu	Ser	Val	Ile	Asp	Met	Ile
65					70					75					80
Phe	Cys	Ser	Ile	Thr	Ala	Pro	Lys	Met	Ile	Cys	Asp	Ile	Phe	Lys	Lys
				85					90					95	
His	Lys	Thr	Ile	Ser	Phe	Trp	Gly	Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ser
			100					105					110		
His	Ala	Val	Gly	Gly	Thr	Glu	Met	Val	Leu	Leu	Ile	Ala	Met	Ala	Phe
		115					120					125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu	Ile	Ile	Met
	130					135					140				
Ser	Pro	Arg	Val	Cys	Leu	Phe	Phe	Leu	Ile	Thr	Ser	Trp	Val	Ile	Gly
145					150					155					160
Leu	Ile	His	Ser	Val	Val	Gln	Leu	Val	Phe	Val	Val	Asp	Leu	Pro	Phe
				165					170					175	
Cys	Gly	Pro	Asn	Thr	Leu	Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Leu
			180					185					190		
Leu	Arg	Leu	Ala	Cys	Thr	Asn	Thr	Gln	Glu	Leu	Glu	Leu	Met	Val	Thr
		195					200					205			
Val	Asn	Ser	Gly	Leu	Ile	Ser	Val	Gly	Ser	Phe	Leu	Leu	Leu	Val	Ile
	210					215						220			
Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Thr	Val	Trp	Lys	His	Ser	Ser	Cys	Gly
225					230					235					240
Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His	Ile	Thr	Val	Val	Ile
				245					250					255	
Leu	Phe	Phe	Gly	Pro	Leu	Met	Phe	Phe	Tyr	Thr	Trp	Pro	Ser	Pro	Thr
			260					265					270		
Ser	His	Leu	Asp	Lys	Tyr	Leu	Ala	Ile	Phe	Asp	Ala	Phe	Ile	Thr	Pro
		275					280					285			
Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Asp	Met	Lys	Val
	290					295					300				
Ala	Met	Gly	Arg	Leu	Trp	Gly	Tyr	Leu	Arg	His	Tyr	Arg	Lys	Met	Ser
305					310					315					320

<210> 1991  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1991

Met	Gly	Asn	Gly	Thr	Thr	Val	Gln	Glu	Phe	Thr	Leu	Glu	Gly	Phe	Pro
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Ala	Val	Gln	His	Leu	Gly	Arg	Leu	Leu	Phe	Ser	Leu	Asn	Leu	Leu	Ala
			20					25					30		
Tyr	Leu	Ala	Ser	Ile	Thr	Gly	Asn	Val	Val	Ile	Val	Ser	Ile	Ile	Cys
		35					40					45			
Thr	Ser	Thr	Arg	Leu	Lys	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Val	Phe
		50				55					60				
Ser	Phe	Gly	Glu	Ser	Cys	Phe	Thr	Ser	Ala	Val	Ile	Pro	Lys	Leu	Leu
65					70					75					80
Ala	Ile	Phe	Leu	Leu	Gly	Lys	Gln	Thr	Ile	Ser	Phe	Val	Ala	Cys	Phe
				85					90					95	
Ile	Gln	Thr	Phe	Val	Thr	Leu	Phe	Ile	Gly	Ala	Phe	Gly	Phe	Phe	Leu
			100					105					110		
Ile	Ala	Val	Met	Ser	Val	Asp	Arg	Cys	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Pro	Thr	Ile	Met	Asp	Leu	Arg	Thr	Cys	Ile	Leu	Leu	Ile	Met
		130				135					140				
Ala	Cys	Leu	Ala	Leu	Thr	Phe	Thr	Leu	Ile	Thr	Trp	Leu	Val	Val	Thr
145					150					155					160
Val	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro	His	Val	Ile	Pro	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Ser	Pro	Leu	Ile	His	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Ser
			180					185					190		
Ala	Glu	Ala	Leu	Thr	Phe	Ala	Leu	Ala	Leu	Ile	Ile	Leu	Phe	Ser	Ser
		195					200					205			
Leu	Ile	Ile	Thr	Thr	Ile	Ala	Tyr	Ser	Asn	Ile	Val	Ile	Thr	Ile	Val
		210				215					220				
Arg	Leu	Pro	Ser	Ala	Lys	Glu	Arg	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Ile	Val	Leu	Ser	Leu	Met	Tyr	Gly	Ser	Cys	Val	Phe	Ile
				245					250					255	
Tyr	Val	Lys	Pro	Lys	Gln	Met	Ser	Arg	Leu	Glu	Ser	Asn	Arg	Glu	Ala
			260					265					270		
Ala	Leu	Val	Asn	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Gln	Val	His	Gln	Ala	Leu	Arg	Glu	Thr	Leu	Ser
		290				295					300				
Arg	Ile	Lys	Ile	Ser	Gly										
305					310										

<210> 1992  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 1992

Met	Gly	Gln	Glu	Phe	Ile	Asn	Gln	Thr	Trp	Val	Asn	Glu	Phe	Ile	Leu
1				5					10					15	
Leu	Gly	Leu	Ser	Ser	Asp	Arg	Asn	Thr	Gln	Val	Phe	Leu	Phe	Val	Leu



Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn
		115					120				125				
Pro	Leu	Arg	Tyr	Thr	Val	Val	Met	Asn	Pro	Arg	Leu	Cys	Met	Gly	Leu
	130					135					140				
Ala	Gly	Val	Ser	Trp	Phe	Val	Gly	Val	Val	Asn	Ser	Ala	Val	Glu	Thr
145					150					155					160
Ala	Val	Thr	Met	Arg	Leu	Pro	Thr	Cys	Gly	His	Asn	Val	Leu	Asn	His
			165						170					175	
Val	Ala	Cys	Glu	Thr	Leu	Ala	Leu	Val	Arg	Leu	Ala	Cys	Val	Asp	Ile
			180					185					190		
Thr	Leu	Asn	Gln	Val	Val	Ile	Leu	Ala	Ser	Ser	Val	Val	Val	Leu	Leu
		195					200					205			
Val	Pro	Cys	Cys	Leu	Val	Ser	Leu	Ser	Tyr	Ala	Tyr	Ile	Val	Thr	Ala
	210					215					220				
Ile	Leu	Lys	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ser	Met	Ser	Tyr	Gly	Met	Ala	Leu
				245					250					255	
Phe	Thr	His	Met	Glu	Pro	Thr	Ser	Thr	Ala	Ser	Ala	Glu	Gln	Asp	Lys
			260					265					270		
Val	Val	Val	Val	Phe	Tyr	Ala	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Ser	Arg	Val
	290					295					300				
Leu	Met	Lys	Ile	Phe	Glu	Ser	Lys	Asn							
305					310										

<210> 1994

<211> 312

<212> PRT

<213> Mus musculus

<400> 1994

Met	Ile	Met	Asn	Asn	Lys	Thr	Val	Ile	Ser	Gln	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Gln	Glu	Tyr	Gln	His	Leu	Tyr	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Ser	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Leu	Leu	Val	Phe	Gly	Asp	Leu	Glu	Ser
			100					105					110		
Ile	Leu	Leu	Leu	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Thr	Leu	Cys	Val	Cys	Leu
	130					135					140				
Leu	Val	Leu	Ser	Trp	Val	Phe	Thr	Val	Leu	Tyr	Ser	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Leu	Ser	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Leu	Ile	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
His	Ile	Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Gly	Gly	Leu	Val	Ser	Ile

Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Ile	Gln	Ile	Val	Tyr	Ser
210						215					220				
Ile	Leu	Lys	Ile	Ser	Ser	Ala	His	Val	Leu	His	Lys	Ile	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Phe
				245					250					255	
Ala	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Ile
			260					265					270		
Ser	Met	Ala	Met	Met	Cys	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Arg	Asp	Ala	Leu	Phe	Gly	Val
290					295						300				
Leu	Gly	Lys	Lys	Lys	Ile	Ser	Leu								
305					310										

<210> 1995

<211> 310

<212> PRT

<213> Mus musculus

<400> 1995

Met	Arg	Asn	Phe	Ser	Val	Val	Thr	Gln	Phe	Ile	Leu	Leu	Gly	Ile	Pro
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His	Thr	Glu	Gly	Val	Glu	Ile	Met	Leu	Phe	Val	Leu	Phe	Leu	Ser	Phe
			20					25					30		
Tyr	Ile	Phe	Thr	Leu	Val	Gly	Asn	Leu	Leu	Ile	Leu	Phe	Ala	Ile	Val
	35						40					45			
Ser	Ser	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Gln	Leu
50						55					60				
Ser	Val	Cys	Asp	Ile	Phe	Phe	Pro	Ser	Val	Ser	Ser	Pro	Lys	Met	Leu
65				70					75					80	
Phe	Tyr	Leu	Ser	Gly	Asn	Ser	Arg	Ala	Ile	Ser	Tyr	Thr	Gly	Cys	Val
				85					90					95	
Cys	Gln	Leu	Phe	Phe	Tyr	His	Phe	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala	Ile	Cys	Phe	Pro	Leu
	115						120					125			
Arg	Tyr	Ser	Ile	Ile	Met	Asn	His	Lys	Val	Cys	Ala	Ile	Met	Ala	Val
	130					135					140				
Gly	Thr	Ser	Phe	Phe	Gly	Cys	Ile	Gln	Ala	Thr	Phe	Leu	Thr	Thr	Leu
145					150				155					160	
Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Tyr	Tyr	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Val	Met	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Thr
			180					185					190		
Leu	Glu	Met	Val	Gly	Leu	Ile	Ser	Val	Gly	Leu	Met	Pro	Leu	Ser	Cys
	195						200					205			
Phe	Leu	Leu	Ile	Leu	Thr	Ser	Tyr	Ser	Phe	Ile	Leu	Cys	Ser	Ile	Leu
	210					215					220				
Gln	Ile	Arg	Ser	Thr	Glu	Gly	Arg	His	Arg	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ala	His	Leu	Thr	Ala	Ile	Leu	Leu	Ala	Phe	Met	Pro	Val	Val	Leu	Ile
				245					250					255	
Tyr	Leu	Gln	Pro	Thr	Pro	Asn	Pro	Trp	Leu	Asn	Ala	Ala	Val	Gln	Val
			260					265					270		
Leu	Asn	Asn	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275						280					285			

Arg	Asn	Lys	Glu	Val	Lys	Cys	Ser	Leu	Lys	Lys	Met	Leu	Gln	Gln	Gly
	290					295					300				
Pro	Ile	Leu	Ser	Lys	Lys										
305					310										

<210> 1996  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 1996

Met	Gly	Thr	Gly	Asn	His	Ser	Val	Thr	Val	Val	Phe	Val	Leu	Val	Gly
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Leu	Thr	Gln	Gln	Pro	Glu	Leu	Leu	Leu	Pro	Leu	Phe	Ile	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Ala	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu
		35					40					45			
Ile	Thr	Val	Ser	Pro	Leu	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Cys	Val	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Leu	Gly	Lys	Lys	Asn	Leu	Ile	Val	Tyr	Ser	Glu
			85						90					95	
Cys	Met	Ala	Gln	Leu	Phe	Phe	Phe	Val	Ile	Phe	Val	Val	Ala	Glu	Gly
			100					105					110		
Tyr	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg
		115				120						125			
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Ser	Arg	Leu	Cys	Ser	Leu	Leu
	130					135					140				
Val	Leu	Val	Ala	Phe	Ile	Leu	Gly	Phe	Val	Ser	Ala	Leu	Ala	His	Thr
145					150					155					160
Ser	Ala	Met	Met	Asn	Leu	Ser	Phe	Cys	Lys	Ser	His	Val	Ile	Ser	His
				165					170					175	
Tyr	Phe	Cys	Asp	Val	Leu	Pro	Leu	Leu	Asn	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Lys	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ile	Ile	Ala	Gly	Phe	Asn	Thr	Leu
		195					200					205			
Val	Pro	Thr	Leu	Ala	Val	Ala	Ile	Ser	Tyr	Val	Phe	Ile	Phe	Cys	Ser
	210					215					220				
Ile	Leu	His	Ile	Lys	Ser	Ser	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Met	Ala	Val	Gly	Ile	Phe	Phe	Gly	Ser	Ile	Thr
				245					250					255	
Phe	Met	Tyr	Phe	Lys	Pro	Pro	Ser	Ser	Asn	Ser	Leu	Glu	Gln	Glu	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Leu	Gly	Lys	Cys
	290					295					300				
Leu	Ala	Gly	Arg												
305															

<210> 1997  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 1997

Met	Gln	Val	Gln	Met	Ala	Asp	Thr	Asn	His	Ser	Thr	Val	Thr	Glu	Phe
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Ile	Leu	Ala	Gly	Leu	Thr	Asp	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe
			20					25					30		
Leu	Leu	Phe	Leu	Gly	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Gly
		35					40					45			
Met	Ile	Ile	Leu	Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Thr	Val
65					70					75					80
Ile	Thr	Pro	Lys	Met	Leu	Val	Asn	Phe	Val	Ala	Lys	Lys	Asn	Val	Ile
			85						90					95	
Ser	Tyr	Glu	Glu	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Ala	Phe	Val
			100					105						110	
Ile	Ser	Glu	Cys	His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120						125		
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile
	130					135						140			
Cys	Ser	Trp	Met	Val	Gly	Gly	Val	Tyr	Gly	Met	Gly	Leu	Ile	Gly	Ala
145					150					155					160
Ala	Val	His	Thr	Leu	Cys	Met	Leu	Arg	Val	Val	Phe	Cys	Lys	Ala	Asn
				165					170					175	
Ile	Ile	Asn	His	Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Met	Glu	Leu	Ala
			180					185					190		
Cys	Ser	Ser	Thr	Tyr	Val	Asn	Glu	Val	Val	Leu	Leu	Cys	Leu	Ser	Ala
		195					200					205			
Phe	Asn	Ile	Phe	Ile	Pro	Thr	Leu	Thr	Ile	Leu	Gly	Ser	Tyr	Ile	Phe
	210					215					220				
Ile	Ile	Ile	Ser	Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Phe	Lys
225					230						235				240
Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Phe	Ser	Ala	Val	Ser	Val	Phe	Phe
				245					250					255	
Gly	Ser	Leu	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Phe	Ser	Val	Ser	Ser	Lys
			260					265					270		
Asp	Lys	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Ile	Val	Pro	Met
		275					280					285			
Leu	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Lys	Leu	Ala
	290					295					300				
Leu	Asn	Lys	Leu	Phe	Gln	Lys	Lys	Phe	His	Val					
305					310					315					

<210> 1998

<211> 311

<212> PRT

<213> Mus musculus

<400> 1998

Met	Ala	Thr	Gly	Asn	Tyr	Cys	Met	Leu	Pro	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	Lys	Lys	Pro	Gln	Leu	Gln	Met	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Lys	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	His	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80

Met	Leu	Val	Asn	Phe	Val	Ile	Glu	Lys	Asn	Ile	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Leu	Ile	Phe	Ala	Ile	Ala	Glu	Cys
		100						105					110		
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Thr	Ser	Leu
	130					135					140				
Ile	Phe	Gly	Val	Tyr	Ile	Ile	Gly	Val	Val	Cys	Ala	Ser	Ala	His	Thr
145					150					155					160
Gly	Phe	Met	Ile	Arg	Ile	Gln	Phe	Cys	Asn	Leu	Glu	Val	Ile	Asn	His
			165						170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Glu	Leu	Ala	His	Ser	Ser	Thr
			180					185					190		
Tyr	Val	Asn	Glu	Leu	Leu	Val	Leu	Cys	Phe	Gly	Thr	Phe	Asn	Ile	Val
		195					200					205			
Val	Pro	Thr	Met	Thr	Ile	Leu	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Asn
	210					215					220				
Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gly	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Leu	Ala	Val	Ala	Val	Phe	Phe	Gly	Ser	Ala	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Ser	Val	Ala	Leu	Lys	Lys	Ile
	290					295					300				
Leu	Glu	Arg	Lys	Leu	Phe	Met									
305					310										

<210> 1999

<211> 315

<212> PRT

<213> Mus musculus

<400> 1999

Met	Glu	Glu	Ile	Asn	Asp	Thr	Ser	Val	Ala	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe	Leu
			20					25					30		
Ala	Val	Tyr	Leu	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu
		35					40					45			
Ile	Leu	Ile	Ser	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Arg
	50					55					60				
Ser	Leu	Ser	Phe	Ile	Asp	Cys	Cys	Gln	Ser	Thr	Val	Ile	Ile	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asn	Phe	Val	Thr	Glu	Met	Asn	Ile	Ile	Ser	Tyr	Pro	Gln
			85						90					95	
Cys	Ile	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Ala	Phe	Ala	Val	Ser	Glu	Cys
		100						105					110		
His	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Ser	Leu	Met
	130					135					140				
Val	Ala	Val	Val	Tyr	Gly	Ile	Gly	Leu	Ile	Ser	Ala	Thr	Ala	His	Thr
145					150					155					160
Val	Phe	Leu	Leu	Arg	Val	Leu	Phe	Cys	Lys	Ser	Asp	Ile	Ile	Asn	His



				165					170					175			
Tyr	Phe	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Ser	Ser	Thr		
			180						185				190				
Tyr	Ile	Asn	Glu	Val	Leu	Ala	Leu	Ser	Phe	Ser	Ala	Phe	Asn	Ile	Ile		
		195					200					205					
Val	Pro	Ala	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ile	Phe	Ile	Ile	Val	Ser		
	210					215					220						
Val	Leu	His	Ile	Gln	Ser	Thr	Gly	Gly	Arg	Val	Lys	Ala	Phe	Arg	Thr		
225				230					235						240		
Cys	Ser	Ser	His	Ile	Met	Ala	Val	Ala	Ile	Phe	Phe	Gly	Ser	Thr	Val		
			245						250					255			
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Ser	Met	Asp	Gln	Gly	Lys		
			260					265					270				
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Arg	Val	Ser	Leu	Lys	Lys	Leu		
	290				295						300						
Leu	Gln	Lys	Ile	Ser	Phe	Leu	Lys	Thr	Lys	Asn							
305					310					315							

<210> 2000

<211> 314

<212> PRT

<213> Mus musculus

<400> 2000

Met	Glu	Glu	Lys	Asn	Gln	Thr	Val	Met	Pro	Glu	Phe	Leu	Phe	Leu	Gly		
1				5				10					15				
Ile	Thr	Asp	Asn	Phe	His	Gln	Lys	Ile	Val	Ile	Phe	Ile	Ile	Phe	Phe		
		20					25					30					
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Asn	Val	Gly	Met	Ile	Ala	Leu			
	35					40				45							
Ile	Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser		
50						55				60							
Gln	Leu	Ser	Phe	Val	Asp	Val	Ser	Ser	Ser	Ser	Ser	Ile	Ala	Pro	Lys		
65				70					75					80			
Met	Leu	Cys	Asp	Ile	Phe	Ala	Arg	Asn	Lys	Ala	Ile	Ser	Phe	Val	Gly		
			85					90					95				
Cys	Ala	Ala	Gln	Met	Trp	Phe	Phe	Gly	Leu	Phe	Val	Ala	Thr	Glu	Cys		
		100						105				110					
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys		
		115				120					125						
Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Met	Ser	Pro	His	Leu	Ser	Val	Leu	Leu		
	130				135					140							
Val	Ile	Gly	Pro	Tyr	Ala	Ile	Ala	Leu	Ile	Ser	Thr	Thr	Thr	His	Thr		
145				150					155					160			
Thr	Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Tyr	Ile	Ile	Asn	His		
			165					170				175					
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Ser	Asp	Thr		
			180					185				190					
His	Ile	Asn	Lys	Leu	Val	Leu	Phe	Val	Leu	Ala	Gly	Thr	Val	Gly	Val		
		195					200				205						
Leu	Ser	Gly	Leu	Ile	Ile	Leu	Val	Ser	Tyr	Val	Cys	Ile	Leu	Lys	Ala		
	210				215					220							
Ile	Leu	Lys	Ile	Gln	Thr	Ala	Asn	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr		
225				230					235					240			
Cys	Ser	Ser	His	Leu	Ala	Thr	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe		
			245					250					255				

Phe	Ile	Tyr	Val	Arg	Pro	Asn	Val	Ser	Ser	Ser	Leu	Asn	Ile	Asn	Lys
			260					265				270			
Val	Ile	Ser	Leu	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Asn	Ala	Phe	Arg	Arg	Thr
	290					295					300				
Leu	Glu	Lys	Lys	His	Phe	Leu	Thr	Gly	Ala						
305					310										

<210> 2001

<211> 314

<212> PRT

<213> Mus musculus

<400> 2001

Met	Glu	Glu	Lys	Asn	Gln	Thr	Ile	Val	Met	Glu	Phe	Phe	Phe	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	His	Leu	Tyr	Gln	Lys	Ile	Ala	Leu	Phe	Ile	Thr	Ile	Leu
			20					25					30		
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Trp	Ala	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Met	Cys	Ser	Ser	Ser	Ser	Ile	Ala	Pro	Lys
65					70					75					80
Met	Leu	Cys	Asp	Ile	Phe	Ala	Glu	Glu	Lys	Arg	Ile	Ser	Phe	Met	Gly
			85						90					95	
Cys	Ala	Ala	Gln	Met	Trp	Phe	Phe	Gly	Phe	Phe	Val	Gly	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile	Cys	Lys
		115						120				125			
Pro	Leu	Leu	Tyr	Thr	Leu	Leu	Met	Ser	Gln	Arg	Val	Cys	Val	His	Leu
	130					135					140				
Val	Val	Gly	Pro	Tyr	Val	Phe	Ala	Ile	Ile	Asn	Ile	Thr	Thr	His	Thr
145					150					155					160
Thr	Leu	Ala	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Ser	Asn	Thr	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Ala	Asp	Ser
			180					185					190		
Trp	Val	Asn	Lys	Val	Val	Leu	Phe	Val	Leu	Ser	Gly	Ala	Ile	Gly	Val
		195					200					205			
Phe	Ser	Gly	Leu	Ile	Ile	Ile	Val	Ser	Tyr	Val	Ser	Ile	Leu	Met	Thr
	210					215					220				
Ile	Phe	Lys	Ile	Gln	Thr	Ala	Asp	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Ala	Ala	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Phe	Ile	Tyr	Val	Arg	Pro	Ser	Ala	Ser	Phe	Ser	Leu	Asn	Ile	Asn	Lys
			260					265					270		
Met	Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Phe	Arg	Arg	Lys
	290					295					300				
Val	Gln	Lys	Lys	His	Phe	Pro	Ala	Gly	Arg						
305					310										

<210> 2002

<211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2002

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Met Ile Gln Tyr Asn Glu Thr Glu Val Lys Gly Phe Tyr Leu Leu Gly
 1           5           10           15
Phe Gly Val Gln His Asp Ile Gln Cys Phe Leu Phe Ile Val Phe Leu
          20           25           30
Ile Ile Tyr Met Thr Ser Met Val Gly Asn Thr Gly Met Ile Leu Leu
          35           40           45
Ile His Thr Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
          50           55           60
His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr Pro Lys
65          70          75          80
Met Leu Gln Thr Phe Val Val Glu Asp Arg Tyr Ile Ser Phe Gly Gly
          85          90          95
Cys Val Val Gln Leu Leu Ile Tyr Ala Ile Phe Ala Thr Cys Asp Cys
          100         105         110
Tyr Leu Leu Ala Ala Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys
          115         120         125
Pro Leu Arg Tyr Pro Ile Leu Met Ser Arg Lys Val Cys Ile Gln Met
          130         135         140
Val Ala Gly Ser Tyr Leu Ile Gly Ser Ile Asn Ser Ser Val His Thr
145         150         155         160
Gly Phe Thr Phe Ser Leu Ser Tyr Cys Lys Ser Asn His Ile Asn His
          165         170         175
Phe Phe Cys Asp Val Pro Pro Ile Ile Ser Leu Ser Cys Ser Asn Ile
          180         185         190
Glu Thr Asn Ile Lys Ile Leu Val Ile Phe Val Gly Phe Asn Leu Ile
          195         200         205
Phe Thr Val Leu Val Val Ile Phe Ser Tyr Met Tyr Ile Met Ala Ala
          210         215         220
Ile Leu Lys Met Ser Ser Thr Ala Gly Arg Lys Lys Thr Phe Ser Thr
225         230         235         240
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ala
          245         250         255
Tyr Met Tyr Leu Gln Pro His Ser Asp Asn Ser Glu Glu Asn Met Lys
          260         265         270
Val Ala Ser Val Phe Tyr Gly Ile Val Ile Pro Met Leu Asn Pro Leu
          275         280         285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Ile Lys Leu Thr
          290         295         300
Lys Lys Lys Leu Phe Arg Phe Asp Thr Gln
305          310

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<210> 2003  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2003

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Met Ile Gln Arg Asn Thr Thr Glu Val Thr Asp Phe Tyr Leu Leu Gly
 1           5           10           15
Phe Gly Val Gln Lys Asn Thr Gln Ser Ile Leu Phe Val Val Phe Leu
          20           25           30
Val Val Tyr Val Thr Ser Met Val Gly Asn Thr Gly Met Ile Leu Leu
          35           40           45

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Ile	Asn	Thr	Asn	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
Asn	Leu	Ala	Phe	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asn	Phe	Met	Val	Glu	Asp	Ser	Ser	Ile	Ser	Tyr	Thr	Gly
				85					90					95	
Cys	Val	Ile	Gln	Leu	Leu	Val	Tyr	Ala	Thr	Phe	Ala	Thr	Ser	Asp	Cys
			100					105					110		
Tyr	Leu	Leu	Ala	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Ile	Ile	Met	Ser	Arg	Gln	Val	Cys	Val	Gln	Leu
	130					135					140				
Val	Ala	Phe	Ser	Tyr	Leu	Met	Gly	Ser	Ile	Asn	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Phe	Thr	Phe	Ser	Leu	Ser	Tyr	Cys	Asn	Ser	Lys	Asn	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Val	Pro	Ile	Ile	Ser	Leu	Ser	Cys	Ser	Asn	Ile
			180					185					190		
Asp	Ile	Asn	Ile	Met	Leu	Leu	Val	Ile	Phe	Val	Gly	Phe	Asn	Leu	Thr
	195						200					205			
Phe	Thr	Val	Leu	Val	Ile	Ile	Phe	Ser	Tyr	Ile	Tyr	Ile	Met	Ala	Ala
	210					215						220			
Ile	Leu	Lys	Met	Ser	Ser	Thr	Ala	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ala
				245					250					255	
Tyr	Met	Tyr	Leu	Gln	Pro	His	Ser	Asp	Asn	Ser	Glu	Glu	Asn	Met	Lys
			260					265					270		
Val	Ala	Ser	Val	Phe	Tyr	Gly	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Gly	Phe	Lys	Ala	Met
	290					295					300				
Ser	Arg	Arg	Phe	Leu	Arg	Leu	Lys	Ser	Asn	Pro					
305					310					315					

<210> 2004

<211> 314

<212> PRT

<213> Mus musculus

<400> 2004

Met	Thr	Gln	Gly	Asn	Gly	Thr	Glu	Val	Thr	Asp	Phe	Tyr	Leu	Leu	Gly
1				5					10					15	
Phe	Gly	Val	Glu	Arg	Asp	Ile	Gln	Cys	Val	Leu	Phe	Ile	Val	Phe	Leu
		20						25					30		
Val	Ile	Tyr	Val	Thr	Ser	Met	Val	Gly	Asn	Thr	Gly	Met	Ile	Leu	Leu
		35					40					45			
Ile	Asn	Thr	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asn	Phe	Met	Val	Glu	Asp	Lys	Ser	Ile	Thr	Phe	Lys	Gly
				85					90					95	
Cys	Val	Ile	Gln	Leu	Phe	Ile	Tyr	Ala	Val	Phe	Ala	Thr	Ser	Asp	Cys
			100					105					110		
Tyr	Leu	Leu	Ala	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Ile	Ile	Met	Ser	Arg	Gln	Val	Cys	Val	Gln	Leu

130		135		140											
Val	Ala	Val	Ser	Tyr	Leu	Met	Gly	Ser	Ile	Asn	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Phe	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Ala	Ser	Lys	Ile	Asn	His	Phe
				165						170					175
Phe	Cys	Asp	Ile	Pro	Pro	Ile	Val	Thr	Leu	Ser	Cys	Tyr	Asn	Asn	Asp
			180							185				190	
Ile	Asn	Phe	Met	Leu	Ile	Leu	Ile	Phe	Val	Gly	Phe	Asn	Leu	Thr	Phe
		195						200				205			
Thr	Val	Ser	Val	Val	Ile	Leu	Ser	Tyr	Ile	Tyr	Ile	Met	Ala	Ala	Ile
	210					215						220			
Leu	Lys	Met	Ser	Ser	Thr	Ala	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ala	Tyr
			245							250				255	
Met	Tyr	Leu	Gln	Pro	Pro	Ser	Asp	Asn	Ser	Glu	Glu	Asn	Met	Lys	Val
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Gly	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ile	Lys	Ala	Thr	Gly
290					295						300				
Lys	Lys	Phe	Leu	Lys	Leu	Asp	Leu	Asn	Tyr						
305					310										

<210> 2005  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2005

Met	Glu	Arg	Ile	Asn	Tyr	Thr	Val	Leu	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1			5						10					15	
Val	Pro	His	Pro	Pro	Arg	Leu	Arg	Thr	Phe	Leu	Phe	Val	Phe	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Ala	Leu	Ile	Leu	Ile	Thr
		35				40					45				
Val	Cys	Ala	Asp	Thr	Gln	Leu	His	Ala	Arg	Pro	Met	Tyr	Ile	Phe	Leu
50					55					60					
Gly	Ala	Leu	Ser	Val	Ile	Asp	Met	Gly	Ile	Ser	Thr	Ile	Ile	Val	Pro
65					70					75					80
Arg	Leu	Met	Met	Asn	Phe	Thr	Pro	Gly	Ile	Lys	Pro	Ile	Pro	Phe	Gly
			85						90					95	
Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Tyr	His	Phe	Leu	Gly	Ser	Ser	Gln
			100					105					110		
Cys	Phe	Leu	Tyr	Thr	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys
	115					120						125			
Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Ala	Lys	Leu	Ser	Ile	Leu
	130					135					140				
Leu	Val	Ala	Gly	Ala	Trp	Val	Ala	Gly	Ser	Ile	His	Gly	Ala	Ile	Gln
145					150					155					160
Ala	Ile	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Gln	Val	Asp
			165						170					175	
Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
		180						185					190		
Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile	Gly	Val	Val	Val
		195					200					205			
Ala	Ser	Cys	Phe	Ser	Leu	Ile	Leu	Leu	Ser	Tyr	Ile	Tyr	Ile	Ile	Arg
	210					215					220				

Ala	Ile	Leu	Arg	Ile	Arg	Thr	Ala	Asp	Gly	Arg	Arg	Arg	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ala	His	Val	Thr	Ile	Val	Thr	Val	Tyr	Tyr	Val	Pro	Cys
				245					250					255	
Ala	Phe	Ile	Tyr	Leu	Arg	Pro	Asp	Ser	His	Ser	Ile	Leu	Asp	Gly	Ala
			260					265					270		
Ala	Ala	Leu	Phe	Pro	Thr	Ala	Ile	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Leu	Ala	Leu	Arg	Arg	Met	Val
	290					295					300				
Gly	Ser	Gln	Ser	Thr	Lys	Ser	Glu	Val							
305					310										

<210> 2006

<211> 318

<212> PRT

<213> Mus musculus

<400> 2006

Met	Arg	Arg	Thr	Arg	Asn	Thr	Ser	Leu	Asp	Ala	Val	Val	Thr	Asp	Phe
1				5					10					15	
Leu	Leu	Leu	Gly	Leu	Ala	His	Pro	Pro	Asn	Leu	Arg	Ala	Phe	Leu	Phe
			20					25					30		
Leu	Val	Phe	Phe	Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Leu	Leu
		35					40					45			
Ile	Leu	Leu	Thr	Val	Trp	Ala	Asp	Pro	Lys	Leu	His	Ala	Arg	Pro	Met
	50					55				60					
Tyr	Ile	Leu	Leu	Gly	Val	Leu	Ser	Phe	Leu	Asp	Met	Trp	Leu	Ser	Ser
65				70					75					80	
Val	Ile	Val	Pro	Arg	Leu	Ile	Leu	Asn	Phe	Thr	Pro	Ala	Ser	Lys	Ala
				85					90					95	
Ile	Pro	Phe	Gly	Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Phe	His	Phe	Leu
			100					105					110		
Gly	Ser	Thr	Gln	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Leu	Ala	Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	Gly	Lys
	130					135					140				
Leu	Cys	Thr	Ile	Leu	Val	Ser	Gly	Ala	Trp	Val	Ala	Gly	Ser	Ile	His
145					150					155				160	
Gly	Ser	Ile	Gln	Thr	Thr	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro
			165					170						175	
Asn	Gln	Ile	Asp	Tyr	Phe	Ile	Cys	Asp	Ile	Pro	Ala	Val	Leu	Arg	Leu
			180					185					190		
Ala	Cys	Ala	Asp	Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile
		195					200					205			
Gly	Val	Val	Ala	Ala	Ser	Cys	Phe	Met	Leu	Ile	Leu	Leu	Ser	Tyr	Ala
	210					215					220				
Asn	Ile	Val	His	Ala	Ile	Leu	Lys	Ile	Arg	Thr	Ala	Asp	Gly	Arg	Lys
225					230				235					240	
Arg	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Tyr
				245					250					255	
Tyr	Val	Pro	Cys	Ile	Phe	Ile	Tyr	Leu	Arg	Ala	Gly	Ser	Lys	Ser	Pro
			260					265					270		
Phe	Asp	Gly	Ala	Val	Ala	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser	Ala	Leu
	290					295					300				
Lys	Arg	Leu	Thr	Ala	Gly	Arg	Arg	Asp	Val	Gly	Gly	Glu	Lys		

305

310

315

&lt;210&gt; 2007

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2007

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Met Lys Thr Leu Ser Ser Pro Ser Asn Ser Ser Thr Ile Thr Gly Phe
 1          5          10          15
Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln Ile Leu Leu Phe
      20          25          30
Val Thr Phe Phe Ile Val Tyr Ile Leu Ile Leu Met Gly Asn Ala Ser
      35          40          45
Ile Ile Cys Ala Val Tyr Cys Asp Gln Arg Leu His Thr Pro Met Tyr
      50          55          60
Phe Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Ser
      65          70          75          80
Thr Val Pro Asn Met Leu Ala Asn Phe Leu Ser Asp Thr Lys Val Ile
      85          90          95
Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Phe Gly
      100          105          110
Ser Thr Glu Cys Phe Phe Leu Ala Val Met Ala Phe Asp Arg Tyr Leu
      115          120          125
Ala Ile Cys Arg Pro Leu His Tyr Pro Ser Leu Met Thr Gly His Leu
      130          135          140
Cys Asn Ile Leu Val Ile Ser Cys Trp Val Leu Gly Phe Leu Trp Phe
      145          150          155          160
Pro Val Pro Ile Ile Ile Ser Gln Met Ser Phe Cys Gly Ser Arg
      165          170          175
Ile Ile Asp His Phe Leu Cys Asp Pro Gly Pro Leu Leu Ala Leu Ala
      180          185          190
Cys Ser Arg Ala Pro Leu Met Glu Val Phe Trp Thr Ile Ile Met Ser
      195          200          205
Met Leu Leu Val Ile Pro Phe Leu Phe Ile Met Gly Thr Tyr Ile Leu
      210          215          220
Val Leu Arg Ala Val Phe Arg Leu Pro Ser Arg Asp Gly Gln Lys Lys
      225          230          235          240
Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr
      245          250          255
Cys Ser Val Met Lys Met Tyr Leu Ser Pro Thr Ser Glu His Glu Ala
      260          265          270
Gly Met Gln Lys Leu Val Thr Leu Phe Tyr Ser Val Gly Thr Pro Leu
      275          280          285
Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Asn Ala
      290          295          300
Leu Gln Lys Ile Leu Arg Thr
305          310

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&lt;210&gt; 2008

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2008

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Met Gln Val Thr Thr Glu Arg Gln Asn Val Ser Phe Pro Asp Thr Phe
 1          5          10          15

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Val	Leu	Val	Gly	Phe	Ser	Asp	His	Pro	Trp	Leu	Glu	Met	Pro	Leu	Phe
			20					25					30		
Gly	Val	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Thr	Met	Ile	Gly	Asn	Ser	Ser
		35					40					45			
Ile	Ile	Val	Leu	Ser	Leu	Val	Glu	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr
		50				55					60				
Phe	Phe	Leu	Asp	Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Val	Thr	Cys	Thr
65					70					75					80
Ile	Val	Pro	Gln	Leu	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile
			85						90					95	
Ala	Ser	Trp	Ser	Cys	Ile	Ala	Gln	Ala	Tyr	Leu	Phe	His	Trp	Thr	Ser
			100					105					110		
Cys	Thr	Glu	Ser	Ala	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Cys	Pro	Leu	Arg	Tyr	Val	Leu	Ile	Met	His	Leu	Trp	Ala
		130				135					140				
Cys	Val	Trp	Leu	Ala	Ala	Val	Cys	Trp	Ala	Ser	Gly	Leu	Ala	Asn	Ser
145					150					155					160
Leu	Val	Gln	Ala	Thr	Leu	Thr	Leu	Tyr	Leu	Thr	Leu	Cys	Ala	Lys	Asn
			165						170					175	
Thr	Leu	Asp	His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Ile	Lys	Leu	Ala
			180					185					190		
Cys	Ser	Asp	Thr	Thr	Thr	Asn	Asp	Leu	Ser	Leu	Ala	Leu	Gly	Ala	Ile
		195					200					205			
Pro	Phe	Gly	Ile	Val	Ser	Pro	Leu	Thr	Val	Leu	Ile	Ser	Tyr	Ile	Phe
		210				215					220				
Ile	Ala	Arg	Ala	Val	Leu	Lys	Leu	Pro	Ser	Ala	Glu	Gly	Arg	Arg	Lys
225					230					235					240
Ala	Leu	Ser	Thr	Cys	Thr	Ser	His	Leu	Leu	Val	Val	Thr	Met	Tyr	Phe
			245						250					255	
Gly	Pro	Gly	Met	Tyr	Thr	Tyr	Leu	Gln	Pro	Pro	Gly	Asn	Asn	Thr	Gln
			260					265					270		
Ser	Glu	Phe	Leu	Ser	Leu	Phe	Tyr	Cys	Val	Phe	Thr	Pro	Leu	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Trp	Lys
		290				295					300				
Lys	Val	Leu	Thr	Ser	Gln	Ser	Lys	Gly	Ile	Ser	Leu	Lys	Gly	Gln	
305					310					315					

<210> 2009

<211> 311

<212> PRT

<213> Mus musculus

<400> 2009

Met	Glu	Arg	Thr	Asn	Val	Ser	His	Glu	Met	Glu	Phe	Glu	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Ser	Asp	Pro	Gln	Leu	Gln	Lys	Leu	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Val	Met	Tyr	Ala	Ile	Thr	Val	Leu	Gly	Asn	Leu	Val	Met	Phe	Phe	Leu
		35					40				45				
Ile	His	Val	Ser	Thr	Thr	Leu	His	Thr	Pro	Met	Tyr	Ser	Leu	Leu	Lys
		50				55					60				
Ser	Leu	Ser	Leu	Leu	Asp	Phe	Cys	Tyr	Ser	Ser	Thr	Val	Val	Pro	Gln
65					70					75					80
Thr	Leu	Ile	Asn	Phe	Leu	Val	Glu	Arg	Lys	Val	Ile	Ser	Tyr	Phe	Gly
			85						90					95	
Cys	Met	Ala	Gln	Met	Phe	Phe	Phe	Ala	Gly	Phe	Ala	Thr	Ser	Glu	Cys





Gly	Asp	Gln	Ile	Leu	Glu	Tyr	Val	Phe	Ile	Ile	Thr	Ser	Cys	Cys	Phe
		195					200					205			
Ala	Phe	Met	Cys	Phe	Ile	Leu	Met	Val	Ile	Ser	Tyr	Val	His	Ile	Phe
	210					215					220				
Thr	Ile	Ile	Leu	Arg	Ile	Pro	Ser	Ile	Gln	Gly	Arg	Phe	Lys	Ile	Phe
225					230					235					240
Ser	Thr	Cys	Ile	Pro	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Leu	Ser	Ser
				245					250					255	
Gly	Phe	Val	Ala	Tyr	Leu	Gly	Ser	Ala	Val	Lys	Ser	Pro	Ser	Ser	Leu
			260					265					270		
Asn	Leu	Phe	Met	Ser	Val	Phe	Tyr	Ser	Leu	Leu	Pro	Pro	Ser	Leu	Asn
	275						280					285			
Pro	Val	Ile	Tyr	Ser	Phe	Arg	Asn	Ser	Asp	Val	Lys	Val	Ala	Leu	His
	290					295					300				
Asn	Ile	Phe	Gly	Glu	Lys	Met	Thr	Thr	His	Phe					
305					310					315					

<210> 2011

<211> 314

<212> PRT

<213> Mus musculus

<400> 2011

Met	Ala	Phe	Leu	Glu	Asp	Ala	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Lys	Val	Val	Leu	Phe	Ser
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Val	Gly	Tyr	Ser	Ser	Thr	Val
65				70					75						80
Thr	Pro	Lys	Met	Leu	Ala	Asn	Phe	Leu	Val	Glu	Arg	Ser	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Thr	Ile	Gln	Leu	Phe	Ser	Gly	Ala	Phe	Phe	Gly	Thr
		100					105						110		
Leu	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Ser	Phe	Leu	Leu	Ser	Phe	Phe	Pro	Leu	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Val	Asn	His	Phe	Phe	Cys	Asp	Leu	Ala	Pro	Leu	Ile	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Gly	Ser	Asn	Val	Pro	Ile	Val	Pro	Ala	Ser	Phe	Cys	Ser	Ala	Phe
		195					200					205			
Val	Ile	Ile	Val	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
				245					250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Phe	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu



<400> 2013

Met	Met	Leu	Gly	Arg	Met	Ala	Phe	Ser	Asn	Asp	Ser	Ser	Val	Lys	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu
		20						25					30		
Phe	Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Val	Ser	Met	Val	Gly	Asn	Leu
		35					40					45			
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met
	50					55					60				
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser
65					70					75					80
Val	Ile	Thr	Pro	Arg	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile
				85					90					95	
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val
			100					105						110	
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala
		115					120					125			
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val
		130				135					140				
Cys	His	Leu	Met	Met	Val	Gly	Val	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala
145					150					155					160
Met	Ala	His	Thr	Gly	Ser	Met	Leu	Ser	Leu	Thr	Phe	Cys	Asp	Gly	Asn
				165						170				175	
Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Gln	Lys	Leu	Ser
			180					185					190		
Cys	Thr	Ser	Thr	Ser	Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly
		195					200					205			
Val	Asn	Val	Ile	Ile	Pro	Ser	Leu	Thr	Val	Phe	Ile	Ser	Tyr	Thr	Leu
		210				215					220				
Ile	Leu	Ser	Asn	Ile	Leu	Ser	Ile	Gln	Ser	Ala	Glu	Gly	Arg	Ser	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Val	Ile	Ala	Val	Ser	Leu	Phe	Phe
				245					250					255	
Gly	Ala	Ser	Ala	Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp
			260					265					270		
Asp	Asp	Lys	Ile	Ser	Thr	Ile	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu
		275					280					285			
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu
		290				295					300				
Arg	Lys	Thr	Leu	Lys	Lys	Ser	Met	Phe	Ile						
305					310										

<210> 2014

<211> 309

<212> PRT

<213> Mus musculus

<400> 2014

Met	Gly	Phe	Gly	Asn	Asp	Ser	Ser	Val	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Val	Val	Ser	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu
		35					40					45			
Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys

65					70					75					80
Met	Leu	Val	Ser	Phe	Val	Thr	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu	Cys
				85					90					95	
Met	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr
			100					105					110		
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	His	Phe	Met	Met
	130					135					140				
Met	Gly	Val	Val	Val	Met	Gly	Ser	Val	Gly	Ala	Val	Ala	His	Ile	Ile
145					150					155					160
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His	Tyr
				165					170					175	
Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr	Tyr
			180					185					190		
Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Ile	Val	Gly	Phe	Asn	Val	Thr	Val
		195					200					205			
Pro	Ile	Leu	Thr	Ile	Phe	Ile	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile
	210					215					220				
Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Ile	Phe	Phe	Gly	Ser	Leu	Ala	Phe
				245					250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Asp	Asp	Lys	Ile	Ser
			260					265					270		
Thr	Ile	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Met	Arg	Lys	Thr	Leu	Lys
	290					295					300				
Lys	Gly	Met	Phe	Ala											
305															

<210> 2015  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2015															
Met	Val	Leu	Glu	Asn	Ser	Ser	Ser	Val	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Ile	Val	Ser	Met	Val	Gly	Asn	Leu	Gly	Leu	Thr	Val	Leu
		35					40				45				
Ile	Val	Leu	Asn	Pro	His	Leu	His	Asn	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Arg
65					70					75					80
Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Thr	Ile	Ser	His	Ala	Glu	Cys
				85					90					95	
Met	Thr	Gln	His	Phe	Phe	Phe	Cys	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr
			100					105					110		
Ile	Leu	Thr	Ala	Val	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr
	130					135					140				
Val	Gly	Val	Tyr	Val	Met	Gly	Phe	Leu	Glu	Ala	Ile	Ala	His	Thr	Gly
145					150					155					160

Ser	Met	Val	Ser	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His	Tyr		
				165					170					175			
Ala	Cys	Asp	Ile	Leu	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr	Thr		
			180					185						190			
Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile	Val		
		195						200					205				
Pro	Thr	Leu	Thr	Ile	Phe	Ile	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile		
	210					215						220					
Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys		
225					230					235					240		
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ala	Ala	Ala	Phe		
				245					250					255			
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Glu	Asp	Asp	Asp	Lys	Val	Ser		
			260					265					270				
Thr	Ile	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr		
		275					280					285					
Ser	Leu	Arg	Asn	Lys	Asp	Val	Tyr	Leu	Ala	Leu	Arg	Lys	Thr	Leu	Met		
	290					295					300						
Lys	Arg	Ser	Phe	Thr													
305																	

<210> 2016

<211> 314

<212> PRT

<213> Mus musculus

<400> 2016

Met	Asn	Trp	Gly	Arg	Met	Ala	Leu	Gly	Asn	Asp	Ser	Ser	Val	Lys	Glu		
1				5					10					15			
Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu		
			20					25					30				
Phe	Phe	Phe	Phe	Leu	Gly	Val	Tyr	Ile	Phe	Ser	Val	Val	Gly	Asn	Leu		
		35					40					45					
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	Gln	Thr	Pro	Met		
	50					55					60						
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Ser		
65					70					75					80		
Val	Ile	Thr	Pro	Lys	Met	Leu	Val	Ser	Phe	Val	Lys	Gln	Asn	Ile	Ile		
				85					90					95			
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val		
			100					105					110				
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala		
		115					120					125					
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Arg	Val		
	130					135					140						
Cys	Leu	Leu	Met	Thr	Val	Gly	Val	Tyr	Val	Met	Gly	Phe	Val	Glu	Ala		
145					150					155					160		
Met	Ala	His	Thr	Ala	Ser	Met	Val	His	Leu	Ile	Phe	Cys	Asp	Ser	Asn		
				165					170					175			
Ile	Ile	Asn	His	Tyr	Met	Cys	Glu	Ile	Asn	Ala	Leu	Leu	Lys	Leu	Ser		
		180						185					190				
Cys	Thr	Ser	Thr	Ser	Ile	Asn	Glu	Leu	Val	Val	Tyr	Ile	Val	Val	Gly		
		195					200					205					
Phe	Asn	Val	Ile	Val	Pro	Thr	Leu	Thr	Ile	Phe	Ile	Thr	Tyr	Thr	Leu		
	210					215						220					
Ile	Leu	Phe	Asn	Ile	Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys		
225					230					235					240		
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Ile	Ala	Val	Ser	Leu	Phe	Phe		



<210> 2018  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2018

Met	Asp	Val	Tyr	Asn	Leu	Thr	Thr	Val	Thr	Gln	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Leu	Ser	Asp	Leu	Pro	Glu	Val	Arg	Tyr	Pro	Leu	Phe	Val	Ala	Phe	Val
		20						25				30			
Ile	Ile	Tyr	Gln	Ile	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Leu	Leu	Ala
		35				40					45				
Ile	Val	Thr	Glu	Lys	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Ile	Phe	Cys	Pro	Ser	Ala	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Lys	Asn	Leu	Leu	Thr	Glu	Asp	His	Ser	Ile	Ser	Phe	Val	Gly
			85						90					95	
Cys	Ala	Leu	Gln	Leu	Tyr	Phe	Leu	Val	Ala	Leu	Ala	Gly	Thr	Glu	Val
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Leu	Ile	Met	Thr	Lys	Val	Arg	Cys	Val	Gln	Leu
		130				135						140			
Leu	Phe	Gly	Thr	Trp	Ala	Ala	Gly	Phe	Leu	Asn	Ser	Phe	Val	His	Thr
145					150					155					160
Met	Ser	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Lys	Ser	Asn	Arg	Val	Asn	Gln
				165					170					175	
Tyr	Tyr	Cys	Asp	Ile	Pro	Pro	Val	Val	Ala	Leu	Ser	Cys	Ser	Ser	Thr
			180					185					190		
Tyr	Met	Ala	Glu	Met	Leu	Val	Leu	Val	Ile	Gly	Gly	Ile	Cys	Gly	Val
		195					200					205			
Gly	Ala	Phe	Leu	Ile	Thr	Leu	Ile	Ser	Tyr	Ile	Tyr	Ile	Val	Ser	Thr
		210				215					220				
Ile	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Leu	Val	Val	Phe	Leu	Phe	Tyr	Gly	Thr	Thr	Ile
				245					250					255	
Phe	Thr	Tyr	Ile	Arg	Pro	Thr	Ser	Ser	Gln	His	Ser	Pro	Gly	Arg	Asp
			260					265					270		
Arg	Leu	Ile	Ser	Met	Leu	Tyr	Gly	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Gly	Ala	Leu	Arg	Lys
		290				295					300				
Val	Leu	His	Leu	Arg	Ile	Cys	Ser	Gln	Arg	Glu					
305					310					315					

<210> 2019  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2019

Met	Glu	Met	Asp	Val	Tyr	Asn	Leu	Thr	Thr	Val	Thr	Gln	Phe	Ile	Leu
1				5					10					15	
Ile	Gly	Leu	Ser	Asp	Leu	Pro	Glu	Val	Arg	Tyr	Pro	Leu	Phe	Val	Ala
		20						25				30			
Phe	Val	Ile	Ile	Tyr	Gln	Ile	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Leu





Asn	Pro	Leu	Leu	Tyr	Ser	Ser	Val	Met	Ser	Pro	Thr	Leu	Cys	Ala	Gln
	130					135					140				
Met	Val	Met	Gly	Ser	Tyr	Thr	Ala	Gly	Leu	Thr	Gly	Ser	Val	Ser	Gln
145					150					155					160
Ile	Cys	Ala	Leu	Leu	Gln	Leu	Tyr	Phe	Cys	Gly	Pro	Asn	Val	Ile	Arg
				165					170						175
His	Phe	Phe	Cys	Asp	Ile	Ser	Gln	Leu	Leu	Asn	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Ala	Phe	Phe	Val	Gln	Val	Leu	Leu	Ala	Ile	Leu	Thr	Met	Cys	Phe	Gly
			195					200				205			
Ile	Ala	Asn	Ala	Leu	Ala	Thr	Met	Leu	Ser	Tyr	Gly	Phe	Ile	Val	Leu
	210					215					220				
Ser	Ile	Leu	Lys	Ile	Thr	Ser	Ala	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Asn
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Gly
				245					250						255
Ile	Phe	Val	Tyr	Leu	Arg	Ser	Ser	Ser	Gly	Ser	Ser	Ser	Ser	Phe	Asp
			260					265					270		
Arg	Phe	Thr	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asp	Ala	Met	Lys	Arg
	290					295					300				
Leu	Gln	Lys	Lys	Lys	Ile	Cys	Asn								
305					310										

<210> 2021

<211> 311

<212> PRT

<213> Mus musculus

<400> 2021

Met	Glu	Pro	Gly	Asn	Leu	Thr	Trp	Val	Ser	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Phe	Ser	Glu	Ile	Trp	Glu	Leu	Gln	Val	Phe	Leu	Phe	Val	Val	Phe	Leu
			20					25				30			
Cys	Val	Tyr	Ser	Thr	Thr	Val	Val	Gly	Asn	Leu	Leu	Ile	Ile	Val	Thr
		35				40						45			
Val	Ser	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg
	50					55				60					
Asn	Leu	Ala	Val	Leu	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys
65					70				75						80
Met	Leu	Val	Asp	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Tyr	Arg	Gly
			85					90						95	
Cys	Met	Val	Gln	Ile	Phe	Phe	Phe	His	Phe	Leu	Gly	Gly	Ala	Met	Val
			100					105					110		
Phe	Phe	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala	Ile	Ser	Arg
		115					120					125			
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Asn	Ser	Gln	Leu	Cys	Met	Gly	Leu
	130					135					140				
Val	Val	Ala	Ser	Trp	Val	Gly	Gly	Phe	Ala	His	Ser	Ile	Val	Gln	Leu
145					150				155						160
Ser	Leu	Met	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Asn
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Leu	Arg	Leu	Ala	Cys	Met	Asp	Thr
			180					185					190		
Ser	Leu	Leu	Glu	Phe	Leu	Met	Ile	Ser	Asn	Ser	Gly	Met	Leu	Asp	Val
		195					200					205			
Ile	Trp	Phe	Phe	Leu	Leu	Leu	Ile	Ser	Tyr	Leu	Val	Ile	Leu	Val	Met

210		215		220
Leu Arg Ser His Ser Gly	Glu Ala Arg Arg Lys	Ala Ala Ser Thr Cys		
225	230	235	240	
Thr Thr His Ile Ile Val	Val Ser Met Ile Phe	Ile Pro Ser Ile Tyr		
	245	250	255	
Leu Tyr Ala Arg Pro Phe	Thr Pro Phe Thr Met	Asp Lys Ala Val Ser		
	260	265	270	
Ile Ser His Thr Val Leu	Thr Pro Met Leu Asn	Pro Met Ile Tyr Thr		
	275	280	285	
Leu Arg Asn Gln Glu Met	Gln Ala Ala Met Lys	Arg Leu Ala Lys Arg		
	290	295	300	
Leu Ala Leu Cys Asn Arg	Glu			
305	310			

<210> 2022

<211> 313

<212> PRT

<213> Mus musculus

<400> 2022

Met Glu Thr Gln Asn Ile Thr Trp Val Ser Glu Phe Ile Leu Leu Gly	
1	5
Phe Ser Gln Thr Gln Glu Leu Gln Lys Leu Leu Phe Val Val Phe Leu	
	20
Cys Val Tyr Ile Thr Thr Val Val Gly Asn Ile Leu Ile Met Ile Thr	
	35
Val Thr Phe Asp Pro Arg Leu Asp Met Pro Met Tyr Phe Leu Leu Arg	
	50
Asn Leu Ala Val Ile Asp Leu Ser Tyr Ser Thr Val Thr Ser Pro Lys	
65	70
Met Leu Val Asp Phe Phe His Lys Thr Lys Thr Ile Ser Tyr Gln Gly	
	85
Cys Met Ala Gln Ile Phe Phe Phe His Leu Leu Gly Gly Gly Thr Val	
	100
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Arg	
	115
Pro Leu His Tyr Val Thr Ile Met Asn Thr Lys Leu Cys Val Gly Leu	
	130
Val Val Ala Ser Trp Val Gly Gly Phe Ala His Ser Ile Val Gln Leu	
145	150
Ser Leu Met Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Asn	
	165
Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr	
	180
Ser Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Met Leu Val Leu	
	195
Ile Trp Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Val Met	
	210
Leu Arg Ser His Ser Gly Gln Ala Arg Arg Lys Ala Ala Ser Thr Cys	
225	230
Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr	
	245
Ile Tyr Ser Arg Pro Phe Thr Pro Phe Pro Leu Asp Lys Ala Val Ser	
	260
Ile Ser Tyr Thr Val Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Thr	
	275
Leu Arg Asn Gln Glu Met Gln Ala Ala Met Lys Arg Leu Ala Glu His	
	290
	295
	300

Leu Val Leu Thr Lys Arg Asn Glu Leu  
305 310

<210> 2023

<211> 311

<212> PRT

<213> Mus musculus

<400> 2023

Met	Gln	Pro	Gly	Asn	Leu	Thr	Trp	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly	
1				5					10					15		
Phe	Ser	Glu	Ile	Trp	Glu	Leu	Gln	Val	Phe	Leu	Phe	Val	Val	Phe	Leu	
			20					25					30			
Cys	Val	Tyr	Ser	Thr	Thr	Val	Val	Gly	Asn	Leu	Leu	Ile	Ile	Val	Thr	
		35					40					45				
Val	Ser	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg	
	50					55					60					
Asn	Leu	Ala	Val	Leu	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys	
65					70					75					80	
Met	Leu	Val	Asp	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Tyr	Gln	Gly	
				85					90					95		
Cys	Met	Ala	Gln	Val	Phe	Phe	Phe	His	Phe	Leu	Gly	Gly	Ala	Met	Val	
			100					105					110			
Phe	Phe	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala	Ile	Ser	Arg	
		115					120					125				
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Asn	Thr	Gln	His	Cys	Val	Val	Leu	
	130					135					140					
Val	Val	Thr	Ala	Trp	Val	Val	Gly	Phe	Val	His	Ser	Ile	Val	Gln	Leu	
145					150					155					160	
Ser	Leu	Met	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Asn	
				165					170					175		
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Leu	Arg	Leu	Ala	Cys	Thr	Asp	Thr	
			180					185					190			
Ser	Leu	Leu	Glu	Phe	Leu	Met	Ile	Ser	Asn	Ser	Gly	Met	Leu	Asp	Val	
	195						200					205				
Ile	Trp	Phe	Phe	Leu	Leu	Leu	Ile	Ser	Tyr	Leu	Val	Ile	Leu	Val	Met	
	210					215					220					
Leu	Arg	Ser	His	Ser	Gly	Glu	Ala	Arg	Arg	Lys	Val	Ala	Ser	Thr	Cys	
225					230					235					240	
Thr	Thr	His	Ile	Ile	Val	Val	Ser	Met	Ile	Phe	Ile	Pro	Ser	Ile	Tyr	
			245						250					255		
Leu	Tyr	Ala	Arg	Pro	Phe	Thr	Pro	Phe	Thr	Met	Asp	Lys	Ala	Val	Ser	
			260					265					270			
Ile	Ser	His	Thr	Val	Met	Thr	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr	Thr	
	275						280					285				
Leu	Arg	Asn	Gln	Glu	Met	Gln	Ala	Ala	Leu	Lys	Arg	Leu	Gly	Met	His	
	290					295					300					
Leu	Leu	Val	Cys	Arg	Lys	Glu										
305					310											

<210> 2024

<211> 309

<212> PRT

<213> Mus musculus

<400> 2024

Met Glu Ile Ile Asn Lys Thr Ala Lys Val Gln Phe Phe Phe Arg Pro

1				5					10					15			
Phe	Ser	Pro	Asp	Pro	Gly	Val	Gln	Met	Val	Ile	Phe	Val	Thr	Phe	Leu		
			20					25					30				
Val	Met	Tyr	Leu	Thr	Ser	Leu	Ser	Gly	Asn	Ala	Thr	Ile	Ala	Val	Ile		
		35					40					45					
Val	His	Ile	Asn	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala		
	50					55					60						
Asn	Leu	Ala	Val	Leu	Glu	Ile	Phe	Tyr	Thr	Ser	Ser	Ile	Ala	Pro	Leu		
65				70					75					80			
Ala	Leu	Ala	Asn	Leu	Leu	Ser	Met	Gly	Lys	Thr	Pro	Val	Ser	Ile	Thr		
			85						90					95			
Gly	Cys	Gly	Thr	Gln	Met	Phe	Phe	Phe	Val	Phe	Leu	Gly	Gly	Ala	Asp		
			100					105					110				
Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys		
		115					120					125					
Tyr	Pro	Leu	Arg	Tyr	Thr	Leu	Ile	Met	Ser	Trp	Ser	Leu	Cys	Val	Glu		
	130					135					140						
Met	Met	Val	Gly	Ser	Leu	Val	Leu	Gly	Phe	Leu	Leu	Ser	Leu	Pro	Leu		
145					150					155				160			
Thr	Ile	Leu	Ile	Phe	His	Leu	Pro	Phe	Cys	His	Asn	Asn	Glu	Ile	Tyr		
			165						170					175			
His	Phe	Tyr	Cys	Asp	Met	Pro	Ala	Val	Ile	Arg	Leu	Ala	Cys	Gly	Asp		
			180					185					190				
Thr	His	Val	His	Arg	Thr	Ala	Leu	Tyr	Ile	Ile	Ser	Phe	Ile	Val	Leu		
		195					200					205					
Ser	Ile	Pro	Leu	Thr	Leu	Ile	Ser	Ile	Ser	Tyr	Val	Phe	Ile	Ile	Thr		
	210					215					220						
Ala	Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	His	Arg	Ala	Phe	Ser		
225					230					235					240		
Thr	Cys	Ser	Ser	His	Ile	Val	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Thr		
			245						250					255			
Ser	Phe	Ile	Tyr	Leu	Ser	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Met	Gly		
		260						265					270				
Arg	Met	Val	Ser	Val	Val	Tyr	Thr	Phe	Ile	Thr	Pro	Ile	Leu	Asn	Pro		
		275					280					285					
Leu	Ile	Tyr	Ser	Met	Arg	Asn	Lys	Glu	Leu	Lys	Asp	Ala	Leu	Arg	Lys		
	290					295					300						
Ala	Leu	Arg	Lys	Phe													
305																	

<210> 2025  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2025																	
Met	Asp	Lys	His	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly		
1				5					10				15				
Ile	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu		
			20					25					30				
Val	Ile	Tyr	Leu	Thr	Ser	Val	Ile	Gly	Asn	Leu	Gly	Ile	Ile	Ile	Leu		
		35					40					45					
Thr	Asn	Val	Asp	Ala	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg		
	50					55					60						
His	Leu	Ala	Phe	Thr	Asp	Phe	Val	Tyr	Ser	Thr	Thr	Val	Gly	Pro	Lys		
65				70					75					80			
Met	Leu	Val	Asn	Phe	Val	Val	Asp	Gln	Asn	Ala	Ile	Ser	Tyr	Ser	Leu		
			85						90					95			

Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Gly	Ser	Asp	Leu	
			100					105					110			
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	
		115					120					125				
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	His	Lys	Val	Cys	Trp	Val	Leu	
	130					135					140					
Val	Thr	Met	Thr	Tyr	Leu	Tyr	Cys	Thr	Phe	Met	Ser	Leu	Val	Val	Thr	
145					150					155					160	
Ile	Asn	Ile	Phe	Ser	Leu	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Asn	His	
				165					170					175		
Phe	Phe	Cys	Asp	Cys	Ile	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Ser	Asn	Thr	
			180					185					190			
Gln	Glu	Val	Glu	Leu	Ile	Val	Met	Ile	Phe	Ala	Ala	Phe	Asp	Leu	Ile	
		195					200					205				
Ser	Ser	Leu	Val	Val	Val	Leu	Met	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala	
	210					215					220					
Val	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	
225				230					235						240	
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile	
				245					250					255		
Phe	Met	Tyr	Val	Gln	Pro	Glu	Ser	Ser	His	Ser	Ile	Asp	Thr	Asp	Lys	
			260					265					270			
Ile	Ser	Ser	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Leu	
		275					280					285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Gln	Arg	Thr	
	290				295						300					
Trp	Gln	Lys	Ile	Phe	Asn	Thr	Phe	Ser								
305					310											

<210> 2026

<211> 313

<212> PRT

<213> Mus musculus

<400> 2026

Met	Glu	Asn	Gln	Asn	Arg	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly	
1				5					10					15		
Ile	Thr	Asp	His	Pro	Glu	Leu	Gln	Ser	Leu	Phe	Gly	Leu	Phe	Leu		
			20					25				30				
Leu	Ile	Tyr	Leu	Ile	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu	
		35					40					45				
Thr	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	
	50					55					60					
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Thr	Val	Gly	Pro	Lys	
65					70					75				80		
Met	Leu	Thr	Asn	Phe	Ile	Val	Asp	Gln	Asn	Arg	Ile	Ser	Phe	Asn	Leu	
			85						90					95		
Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Ala	Cys	Glu	Leu	
			100					105					110			
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	
		115					120					125				
Pro	Leu	Phe	Tyr	Met	Val	Ile	Met	Ser	Lys	Arg	Leu	Cys	Trp	Val	Leu	
	130					135					140					
Val	Val	Ile	Pro	Tyr	Val	Tyr	Cys	Thr	Ile	Val	Ala	Leu	Leu	Ile	Thr	
145					150					155					160	
Ile	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Ile	Ser	His	
				165					170					175		
Phe	Tyr	Cys	Asp	Ser	Leu	Pro	Leu	Leu	Ser	Leu	Val	Cys	Ser	Asn	Thr	

			180					185					190				
Gln	Glu	Ile	Glu	Val	Ile	Met	Leu	Phe	Leu	Ser	Ala	Phe	Asn	Leu	Ile		
		195					200					205					
Ser	Ser	Leu	Leu	Leu	Val	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala		
	210					215					220						
Ile	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr		
225					230				235						240		
Cys	Gly	Ser	His	Leu	Thr	Val	Asp	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile		
			245						250					255			
Phe	Met	Tyr	Met	Gln	Pro	Lys	Ser	Ser	His	Ser	Phe	Asp	Thr	Asp	Lys		
			260					265					270				
Leu	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu		
	275						280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	His	Arg	Thr		
	290				295						300						
Gly	Lys	Lys	Leu	His	Ser	Val	Cys	Phe									
305					310												

<210> 2027

<211> 315

<212> PRT

<213> Mus musculus

<400> 2027

Met	Gln	Met	Glu	Ser	Gln	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu		
1				5					10					15			
Arg	Gly	Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Gly	Leu		
		20					25					30					
Phe	Phe	Met	Ile	Tyr	Leu	Ile	Ser	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile		
	35					40					45						
Ile	Leu	Thr	Ile	Val	Glu	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe		
	50					55					60						
Leu	Arg	His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Ile	Gly		
65					70				75					80			
Pro	Lys	Met	Leu	Ala	Asn	Phe	Val	Val	Ser	Lys	Asn	Thr	Ile	Ser	Phe		
			85						90					95			
His	Leu	Cys	Ala	Thr	Gln	Leu	Ala	Phe	Leu	Leu	Phe	Ile	Ala	Cys			
			100					105					110				
Glu	Leu	Phe	Ile	Leu	Ser	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile		
		115					120					125					
Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Thr	Val	Cys	Trp		
	130					135					140						
Val	Leu	Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Ser	Val	Phe	Ile	Ser	Leu	Ile		
145					150					155				160			
Val	Thr	Ile	Asn	Ile	Phe	Ser	Ser	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile		
			165						170					175			
Pro	His	Phe	Tyr	Cys	Asp	Gly	Leu	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Thr		
			180					185						190			
Asn	Thr	Asp	Lys	Ile	Gly	Leu	Ile	Ile	Leu	Ile	Leu	Ser	Ala	Ile	Asn		
		195					200					205					
Leu	Ile	Ser	Ser	Leu	Leu	Ile	Ile	Leu	Gly	Ser	Tyr	Leu	Leu	Ile	Phe		
	210					215					220						
Arg	Ala	Ile	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe		
225					230					235					240		
Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Val	Phe	Tyr	Gly	Thr		
			245						250					255			
Leu	Ile	Phe	Met	Tyr	Val	Gln	Pro	Lys	Thr	Ser	His	Ser	Phe	Asp	Thr		
			260					265						270			

Asp	Lys	Val	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Arg
	290					295					300				
Lys	Thr	Gly	Lys	Ile	Ile	Gln	Asn	Asn	Phe	Ser					
305					310					315					

<210> 2028  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2028

Met	Glu	Asn	His	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75				80	
Met	Leu	Arg	Asn	Phe	Leu	Val	Glu	Gln	Asn	Thr	Ile	Ser	Ile	Tyr	Phe
				85					90					95	
Cys	Ala	Val	Gln	Leu	Ser	Phe	Phe	Ser	Met	Phe	Ile	Val	Ser	Glu	Phe
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Arg	Val	Cys	Trp	Leu	Leu
	130					135					140				
Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Ser	Ile	Phe	Val	Ala	Leu	Ile	Val	Thr
145					150					155				160	
Ile	Asn	Ile	Phe	Ser	Ser	Ser	Phe	Cys	Gly	His	Asn	Ile	Ile	Ser	His
				165					170					175	
Phe	Tyr	Cys	Asp	Gly	Leu	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Ser	Asn	Lys
			180					185					190		
Lys	Glu	Ser	Glu	Met	Ile	Ile	Leu	Ile	Leu	Ser	Thr	Ile	Asn	Leu	Ile
		195					200					205			
Ser	Ser	Pro	Val	Val	Ile	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Arg	Ala
	210					215						220			
Ile	Leu	Lys	Met	Asn	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Phe	Met	Tyr	Val	Gln	Pro	Lys	Ser	Asn	His	Thr	Leu	Asn	Thr	Asp	Lys
			260					265					270		
Val	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Arg	Lys	Thr
	290					295					300				
Gly	Lys	Ser	Ile	Gln	Asn	Ile	Phe	Ser							
305					310										

<210> 2029  
 <211> 313  
 <212> PRT



<213> Mus musculus

<400> 2029

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Met Lys Lys Gln Asn Phe Thr Met Val Thr Glu Phe Ile Leu Val Gly
 1      5      10
Ile Thr Asp Arg Pro Glu Leu Gln Ala Pro Leu Phe Gly Leu Phe Leu
 20      25      30
Ile Ile Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Ile Leu
 35      40      45
Thr Met Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
 50      55      60
His Leu Ala Thr Thr Asp Leu Gly Tyr Ser Thr Ala Val Gly Pro Lys
 65      70      75
Met Leu Arg Asn Phe Leu Val Glu Gln Asn Thr Ile Ser Phe Tyr Ile
 85      90      95
Cys Ala Val Gln Leu Thr Phe Phe Asn Met Phe Ile Val Ser Glu Phe
100      105      110
Phe Ile Leu Ser Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys
115      120      125
Pro Leu Leu Tyr Asn Val Ile Met Ser Gln Arg Val Cys Trp Val Leu
130      135      140
Val Ala Ile Pro Tyr Ile Tyr Ser Ile Phe Val Ala Leu Leu Ile Ser
145      150      155
Ile Asn Ile Phe Ser Ser Ser Phe Cys Gly His Asn Ile Ile Ser His
165      170      175
Phe Tyr Cys Asp Gly Leu Pro Leu Ile Ser Leu Leu Cys Ser Tyr Arg
180      185      190
Lys Glu Asn Glu Met Ile Thr Phe Ile Leu Ser Ile Ile Asn Leu Ile
195      200      205
Thr Ser Pro Leu Val Ile Leu Ala Ser Tyr Leu Leu Ile Leu Arg Ala
210      215      220
Ile Leu Arg Met Asn Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr
225      230      235
Cys Gly Ser His Leu Thr Val Val Thr Val Phe Tyr Gly Thr Leu Ile
245      250      255
Phe Met Tyr Val Gln Pro Lys Ser Ser Asp Ser Leu Lys Thr Asp Lys
260      265      270
Val Ala Ser Ile Phe Tyr Ala Leu Ile Ile Pro Met Leu Asn Pro Leu
275      280      285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Ala Leu Arg Lys Thr
290      295      300
Gly Lys Thr Ile Gln Asn Ile Phe Ser
305      310
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<210> 2030

<211> 298

<212> PRT

<213> Mus musculus

<400> 2030

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Met Gly Leu Ser Asn Ser Arg Glu Leu Gln Ile Phe Leu Phe Ala Phe
 1      5      10
Phe Phe Val Phe Tyr Val Gly Ile Val Phe Gly Asn Leu Leu Ile Val
 20      25      30
Ile Thr Val Thr Asn Asp Ser His Leu His Ser Pro Met Tyr Phe Leu
 35      40      45
Leu Ala Asn Leu Ser Phe Ile Asp Leu Cys Val Ser Ser Val Thr Ala
 50      55      60
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Pro	Lys	Thr	Ile	Ala	Asp	Phe	Phe	Tyr	Lys	Arg	Lys	Val	Ile	Ser	Val
65					70					75					80
Lys	Gly	Cys	Phe	Thr	Gln	Ile	Phe	Leu	Leu	His	Phe	Phe	Gly	Gly	Ser
				85					90					95	
Glu	Met	Val	Thr	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
			100					105					110		
Cys	Lys	Pro	Leu	Ser	Tyr	Thr	Thr	Val	Met	Arg	Gly	Asn	Val	Cys	Val
		115					120					125			
Ser	Ile	Val	Ala	Thr	Ala	Trp	Ala	Ile	Gly	Phe	Leu	His	Ser	Val	Ser
	130					135					140				
Gln	Leu	Ala	Phe	Ala	Ile	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Arg	Val
145					150					155					160
Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Val	Ile	Lys	Leu	Ala	Cys	Ala
				165					170					175	
Glu	Thr	Tyr	Arg	Leu	Asp	Ile	Met	Val	Ile	Ala	Asn	Ser	Gly	Val	Leu
			180					185					190		
Ser	Val	Cys	Ser	Phe	Val	Leu	Leu	Ile	Ile	Ser	Tyr	Gly	Ile	Ile	Leu
		195					200					205			
Met	Thr	Ile	Gln	Arg	Arg	Pro	Ser	Asp	Arg	Ser	Ser	Lys	Ala	Leu	Ser
	210					215					220				
Thr	Leu	Thr	Ala	His	Ile	Thr	Val	Val	Leu	Leu	Phe	Phe	Gly	Pro	Cys
225					230					235					240
Ile	Phe	Ile	Tyr	Ala	Trp	Pro	Phe	Pro	Ile	Lys	Ser	Leu	Asp	Lys	Phe
				245					250					255	
Leu	Ala	Val	Phe	Tyr	Ser	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile
			260					265					270		
Tyr	Thr	Leu	Arg	Asn	Thr	Glu	Met	Lys	Thr	Ala	Met	Arg	Arg	Leu	Arg
		275					280					285			
Gln	Trp	Asn	Leu	Ser	Phe	Trp	Val	Lys	Ser						
	290					295									

<210> 2031

<211> 312

<212> PRT

<213> Mus musculus

<400> 2031

Met	Asp	Gly	Gly	Asn	Arg	Ser	Val	Val	Ser	Glu	Phe	Ile	Leu	Gln	Gly
1				5					10					15	
Leu	Ser	His	Ser	Lys	Asn	Ile	Gln	Val	Leu	Leu	Phe	Val	Ile	Phe	Leu
			20					25					30		
Met	Leu	Tyr	Leu	Phe	Ile	Val	Ser	Gly	Asn	Ile	Val	Ile	Leu	Thr	Leu
		35					40					45			
Ile	Thr	Thr	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55				60					
Asn	Leu	Ser	Phe	Val	Asp	Met	Cys	Leu	Ser	Ser	Asn	Ile	Thr	Pro	Lys
65					70					75					80
Met	Ile	Thr	Asp	Phe	Leu	Arg	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Ala	Gly
			85						90					95	
Cys	Met	Ser	Gln	Val	Phe	Phe	Thr	His	Cys	Ile	Ala	Gly	Gly	Glu	Met
			100					105					110		
Ile	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Phe	Thr	Ile	Met	Asn	Leu	Lys	Arg	Cys	Thr	Gly	Leu
	130					135					140				
Val	Leu	Thr	Ser	Trp	Thr	Ile	Gly	Phe	Ile	His	Gly	Ile	Ser	Tyr	Leu
145					150					155					160
Val	Val	Phe	Val	His	Leu	Pro	Phe	Cys	Gly	Pro	Lys	Glu	Ile	Asp	Ser

				165					170					175			
Phe	Phe	Cys	Asp	Met	Pro	Leu	Ile	Ile	Lys	Leu	Ala	Cys	Met	Asp	Ser		
			180						185					190			
His	Asn	Leu	Asn	Thr	Leu	Met	Asn	Ala	Glu	Cys	Gly	Val	Val	Val	Val		
		195					200						205				
Thr	Cys	Phe	Ser	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Val	Thr		
	210						215					220					
Val	Ser	Lys	Ser	Ser	Lys	Ala	Gly	Ala	Ser	Lys	Ala	Leu	Ser	Thr	Cys		
225					230					235					240		
Ser	Ala	His	Ile	Thr	Val	Val	Met	Ile	Phe	Phe	Val	Pro	Cys	Ile	Phe		
				245					250					255			
Ile	Tyr	Val	Trp	Pro	Leu	Ser	Ile	Thr	Trp	Phe	Asp	Lys	Phe	Leu	Ala		
			260					265						270			
Val	Phe	Tyr	Ser	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Thr	Ile	Tyr	Thr		
		275						280					285				
Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asn	Ala	Met	Lys	Arg	Phe	Ile	Gly	Lys		
	290					295					300						
Phe	Leu	Gly	Pro	Lys	Arg	Asn	Ser										
305					310												

<210> 2032

<211> 312

<212> PRT

<213> Mus musculus

<400> 2032

Met	Asp	Gly	Glu	Asn	His	Thr	Val	Val	Ser	Ala	Phe	Val	Phe	Leu	Gly		
1				5					10					15			
Leu	Thr	His	Ser	Trp	Glu	Ile	Gln	Leu	Leu	Leu	Leu	Val	Leu	Ser	Ser		
			20					25					30				
Val	Leu	Tyr	Ile	Leu	Ser	Met	Ala	Gly	Asn	Ile	Leu	Ile	Val	Phe	Ser		
		35					40					45					
Val	Thr	Ile	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala		
	50					55					60						
Cys	Leu	Ser	Phe	Ile	Asp	Leu	Val	Ala	Cys	Ser	Val	Thr	Ser	Pro	Lys		
65					70				75					80			
Met	Val	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Phe	Gly	Gly		
			85						90					95			
Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ile	His	Leu	Val	Gly	Gly	Val	Glu	Met		
			100					105					110				
Val	Leu	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys		
		115					120					125					
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Val	Cys	Val	Leu	Phe		
	130					135					140						
Leu	Gly	Ala	Ala	Trp	Gly	Leu	Gly	Ile	Ser	His	Ser	Leu	Phe	Gln	Leu		
145					150					155					160		
Ala	Phe	Leu	Ile	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Thr	Leu	Asp	Ser		
				165					170					175			
Phe	Tyr	Cys	Asp	Leu	Pro	Lys	Leu	Leu	Arg	Leu	Ala	Cys	Arg	Asp	Thr		
			180					185						190			
Tyr	Lys	Leu	Gln	Phe	Met	Val	Thr	Ile	Asn	Ser	Gly	Phe	Ile	Cys	Val		
		195					200					205					
Gly	Ser	Phe	Leu	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Ser		
	210					215					220						
Val	Trp	Lys	His	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu		
225					230					235					240		
Ser	Ala	His	Ile	Thr	Val	Val	Phe	Leu	Phe	Phe	Gly	Pro	Thr	Leu	Phe		
				245					250					255			

Ile	Tyr	Thr	Trp	Pro	His	Pro	Asn	Ser	Gln	Ile	Asp	Lys	Phe	Leu	Ala	
			260					265					270			
Leu	Phe	Asp	Ala	Val	Leu	Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	
		275					280					285				
Phe	Arg	Asn	Lys	Glu	Met	Lys	Val	Ala	Ile	Arg	Arg	Val	Phe	Lys	Thr	
	290					295					300					
Leu	Leu	Thr	Phe	Arg	Gly	Ile	Ser									
305					310											

<210> 2033

<211> 312

<212> PRT

<213> Mus musculus

<400> 2033

Met	Ile	Arg	Ala	Asn	His	Ser	Ala	Val	Ser	Glu	Phe	Val	Leu	Leu	Gly	
1				5					10				15			
Leu	Ser	Asn	Ser	Trp	Glu	Ile	Gln	Val	Phe	Ile	Phe	Phe	Phe	Thr	Cys	
		20					25					30				
Leu	Phe	Tyr	Val	Ser	Ser	Leu	Thr	Gly	Asn	Phe	Ile	Ile	Val	Val	Thr	
	35					40						45				
Val	Thr	Ser	Asp	Pro	Tyr	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	
	50					55					60					
Asn	Leu	Ser	Val	Ile	Asp	Leu	Ile	Phe	Cys	Ser	Ile	Ala	Ala	Pro	Lys	
65					70				75						80	
Met	Ile	Cys	Asp	Leu	Phe	Arg	Lys	Gln	Lys	Val	Ile	Ser	Phe	Gly	Gly	
			85					90						95		
Cys	Ile	Ser	Gln	Ile	Phe	Phe	Ser	His	Ala	Val	Gly	Gly	Thr	Glu	Met	
		100					105						110			
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	
	115					120					125					
Pro	Leu	Arg	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Met	Cys	Leu	Leu	Ile	
	130					135					140					
Leu	Val	Ala	Ala	Trp	Ile	Ile	Gly	Leu	Ile	His	Ser	Ser	Ala	Gln	Leu	
145					150					155				160		
Ala	Phe	Val	Ile	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Leu	Asp	Ser	
			165					170						175		
Phe	Tyr	Cys	Asp	Ile	Pro	Arg	Leu	Val	Lys	Leu	Ala	Cys	Thr	Asp	Thr	
		180						185					190			
Tyr	Lys	Leu	Glu	Leu	Met	Ile	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Leu	
	195					200						205				
Ile	Ala	Phe	Phe	Leu	Leu	Ile	Ile	Ser	Tyr	Val	Phe	Leu	Leu	Thr	Thr	
	210					215					220					
Val	Gln	Lys	Gln	Ser	Ser	Gly	Cys	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	
225					230					235					240	
Leu	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Leu	Ile	Phe	
			245						250					255		
Phe	Tyr	Val	Cys	Pro	Ser	Pro	Ser	Thr	His	Val	Asp	Lys	Phe	Leu	Ala	
		260						265					270			
Ile	Phe	Asp	Ala	Val	Leu	Thr	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	
	275						280					285				
Leu	Arg	Asn	Arg	Asp	Met	Lys	Ile	Ala	Ile	Arg	Lys	Val	Phe	Cys	Gln	
	290					295					300					
Cys	Leu	Ala	Phe	Arg	Lys	Ser	Met									
305					310											

<210> 2034

<211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2034

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Met Tyr Phe Pro Gln Leu Ser Asp Pro Met Asp Gln Val Asn Ala Ser
 1      5      10      15
Ala Leu Pro Glu Phe Val Leu Leu Gly Leu Ala Gln Ser Phe Gly Thr
      20      25      30
Gln Ile Phe Phe Gly Leu Phe Phe Ser Leu Phe Tyr Val Gly Ile Leu
      35      40      45
Phe Gly Asn Leu Phe Ile Val Phe Ile Val Ile Val Asp Ser His Leu
 50      55      60
His Phe Pro Met Tyr Ile Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
65      70      75      80
Gly Leu Ser Ser Thr Thr Ile Pro Arg Thr Ile Ser Asp Leu Phe Thr
      85      90      95
Gly Cys Lys Val Ile Ser Phe His Ser Cys Met Thr Gln Met Phe Phe
      100      105      110
Ile His Val Met Gly Gly Val Glu Met Val Leu Leu Ile Ala Met Ala
      115      120      125
Tyr Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Leu Met Ile
      130      135      140
Met Asn Pro Lys Lys Cys Ile Ile Leu Val Ile Ala Ala Trp Val Ile
145      150      155      160
Gly Met Ile His Ala Val Ser Gln Phe Leu Phe Val Val Asn Leu Pro
      165      170      175
Phe Cys Gly Pro Tyr Asn Val Gly Ser Phe Tyr Cys Asp Phe Pro Arg
      180      185      190
Val Ile Lys Leu Ala Cys Met Asp Thr Tyr Lys Leu Glu Phe Val Val
      195      200      205
Ser Ala Asn Ser Gly Phe Ile Ser Met Cys Thr Phe Phe Phe Leu Ile
      210      215      220
Thr Ser Tyr Ile Phe Ile Leu Ala Ser Val Arg Gln His Ser Ser Thr
225      230      235      240
Asp Leu Ser Lys Ala Phe Val Thr Leu Ser Ala His Ile Thr Val Val
      245      250      255
Val Leu Phe Phe Ile Pro Cys Met Phe Leu Tyr Val Trp Pro Phe Pro
      260      265      270
Thr Lys Ser Leu Asp Asn Phe Phe Ala Ile Val Asp Phe Val Leu Thr
      275      280      285
Pro Val Leu Asn Pro Thr Ile Tyr Thr Leu Arg Asn Lys Asp Met Arg
      290      295      300
Leu Ala Ile Arg Arg Leu Ser Arg Gln Val Leu Ser Ser Arg Glu Phe
305      310      315      320
Ile

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<210> 2035  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2035

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Met Asp Pro Ser Asn Tyr Ser Thr Leu His Val Phe Ile Leu Leu Gly
 1      5      10      15
Phe Ser Asp His Pro His Leu Glu Met Ile Leu Ser Gly Val Val Thr
      20      25      30

```

Phe	Phe	Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Thr	Ala	Ile	Ile	Leu	Ala
		35					40					45			
Ser	Leu	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile	Ser	Ser	Val	Gly
				85					90					95	
Cys	Ile	Val	Gln	Leu	Tyr	Val	Tyr	Met	Trp	Leu	Gly	Ser	Ile	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Thr	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	His	Tyr	Phe	Val	Ile	Met	Asn	Pro	Arg	Leu	Cys	Val	Lys	Met
	130					135					140				
Ile	Val	Met	Val	Trp	Gly	Ile	Ser	Leu	Ala	Asn	Ser	Val	Ile	Leu	Cys
145					150					155					160
Thr	Leu	Thr	Val	Asn	Leu	Pro	Arg	Cys	Gly	His	Asn	Ile	Leu	Asp	His
				165					170					175	
Phe	Leu	Cys	Glu	Leu	Pro	Ala	Met	Val	Arg	Ile	Ala	Cys	Val	Asp	Thr
			180					185					190		
Thr	Lys	Val	Glu	Leu	Ser	Val	Phe	Ala	Leu	Gly	Ile	Val	Ile	Val	Leu
	195						200					205			
Thr	Pro	Leu	Ile	Leu	Ile	Leu	Ile	Ser	Tyr	Gly	Tyr	Ile	Ala	Lys	Thr
	210					215					220				
Val	Leu	Asn	Met	Lys	Ser	Lys	Ala	Gly	Gln	Gln	Lys	Ala	Met	Asn	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Ile	Ile
				245					250					255	
Tyr	Leu	Tyr	Leu	Gln	Pro	Gly	Asn	Arg	Ala	Ser	Lys	Asp	Gln	Gly	Lys
			260					265					270		
Phe	Leu	Thr	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Ser	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Met	Lys	Asp	Ala	Leu	Lys	Lys	Leu
	290					295					300				
Met	Arg	Phe	Tyr	His	Arg	Phe									
305					310										

<210> 2036

<211> 313

<212> PRT

<213> Mus musculus

<400> 2036

Met	Ile	Pro	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile	Leu	Ile
1				5					10					15	
Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile	Val	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Met
			35				40					45			
Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Phe	Val	Thr	Thr	Thr	Met	Pro
65					70					75					80
Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Ala
				85					90					95	
Ser	Cys	Cys	Leu	Gln	Met	Phe	Val	Phe	Gly	Ala	Leu	Gly	Ile	Thr	Glu
			100					105					110		
Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys



Val	Ile	Ser	Met	Pro	Val	Pro	Leu	Met	Phe	Ile	Leu	Phe	Ser	Tyr	Leu
210					215					220					
Cys	Ile	Leu	Lys	Ala	Val	Leu	Arg	Ile	His	Pro	Thr	Lys	Ala	Arg	Leu
225					230					235					240
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ile	Val	Val	Thr	Ile	Tyr
				245					250					255	
Phe	Gly	Thr	Leu	Ile	Tyr	Ile	Tyr	Met	Arg	Pro	Gln	Ser	Lys	Ile	Ser
			260					265					270		
His	Asn	Gly	Asp	Lys	Ile	Val	Ser	Ile	Phe	Tyr	Ala	Ala	Val	Thr	Pro
		275					280				285				
Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala
	290					295					300				
Val	Leu	Arg	Arg	Val	Asn	Cys	Gly	Val	Lys	Ser					
305					310					315					

<210> 2038

<211> 302

<212> PRT

<213> Mus musculus

<400> 2038

Met	Lys	Asn	Ser	Thr	Val	Leu	Thr	Glu	Phe	Val	Leu	Thr	Gly	Leu	Thr
1				5					10					15	
Glu	Ser	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Phe	Phe	Leu	Val	Ile
			20					25					30		
Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ala	Leu	Ile	Trp
		35				40						45			
Asn	Asp	Pro	His	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly	His	Leu
	50					55					60				
Ala	Phe	Val	Asp	Ala	Ser	Leu	Ser	Ser	Thr	Val	Ala	Pro	Lys	Met	Leu
65					70					75					80
Leu	Asp	Phe	Leu	Gln	Met	Asn	Lys	Met	Ile	Ser	Tyr	Ser	Glu	Cys	Met
			85						90					95	
Thr	Gln	Phe	Phe	Ile	Phe	Ala	Ile	Cys	Val	Thr	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Leu	Tyr	Pro	Met	Ile	Met	Thr	Lys	Arg	Leu	Cys	Ile	Cys	Leu	Leu	Val
	130					135					140				
Leu	Ser	Phe	Val	Gly	Gly	Ile	Leu	His	Ser	Ser	Ile	His	Glu	Gly	Phe
145				150						155					160
Leu	Leu	Leu	Leu	Asn	Phe	Cys	Asn	Ser	Asn	Ile	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Val	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ala	Asp	Thr	Thr	Leu
			180					185					190		
Asn	Phe	Gln	Leu	Ile	Phe	Val	Phe	Ala	Gly	Ile	Ile	Gln	Val	Phe	Thr
		195						200					205		
Val	Val	Ile	Val	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Thr	Ile	Leu
	210					215					220				
Gln	Arg	Lys	Ser	Val	Gln	Ser	Met	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Ile	Met
				245					250					255	
Tyr	Ile	Phe	Pro	Val	Ser	Gln	Glu	Ala	Asp	Gly	Gln	Asp	Ile	Ile	Asp
			260					265					270		
Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Gln	Val	Met	Asp	Ser	Arg	Lys	Arg	Cys		



290

295

300

&lt;210&gt; 2039

&lt;211&gt; 303

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2039

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Met Glu Lys Ile Asn His Ser Glu Ile Ser Glu Phe Ile Ile Leu Gly
 1          5          10          15
Leu Cys Asp Ser Trp Glu Leu Gln Ala Phe Phe Leu Val Ile Phe Thr
 20          25          30
Ser Leu Tyr Leu Ile Thr Ile Phe Gly Asn Ile Phe Ile Val Val Leu
 35          40          45
Ile Ile Thr Asp Leu His Leu His Thr Pro Met Tyr Phe Leu Leu Ala
 50          55          60
Asn Leu Ser Phe Ile Asp Phe Cys Leu Ser Ser Val Thr Thr Pro Lys
 65          70          75          80
Met Ile Ile Asp Phe Leu Lys Glu Ile Lys Thr Ile Ser Phe Gly Gly
 85          90          95
Cys Met Cys Gln Ile Phe Phe Gly His Phe Phe Gly Gly Gly Glu Met
100          105          110
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
115          120          125
Pro Leu His Tyr Ser Asn Ile Met Ser Arg His Met Cys Ile Gly Leu
130          135          140
Val Met Ala Ser Trp Met Ile Gly Phe Val His Ser Ile Ser Gln Leu
145          150          155          160
Val Ile Ile Val Asn Leu Pro Phe Cys Gly Ser Arg Val Leu Asp Ser
165          170          175
Phe Phe Cys Asp Ile Pro Leu Val Ile Lys Leu Ala Cys Leu Asp Ile
180          185          190
Tyr Val Leu Glu Ile Leu Ile Asn Ala Asp Ser Gly Val Leu Ala Ala
195          200          205
Ile Cys Phe Val Leu Leu Leu Val Ser Tyr Phe His Ile Leu Thr Thr
210          215          220
Val Cys Leu His Ser Lys Asp Gly Ala Ser Lys Ala Leu Ser Thr Cys
225          230          235          240
Thr Ala His Ile Thr Val Val Val Leu Phe Phe Gly Pro Cys Ile Phe
245          250          255
Ile Tyr Leu Trp Pro Val Ser Ile Thr Trp Val Asp Lys Phe Leu Ala
260          265          270
Val Phe Tyr Ala Val Ile Thr Pro Leu Leu Asn Pro Ala Ile Tyr Thr
275          280          285
Leu Arg Asn Lys Glu Ile Lys Thr Ala Met Lys Arg Leu Gln Cys
290          295          300

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&lt;210&gt; 2040

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2040

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Met Asn Glu Ile Asn Tyr Thr Glu Val Ser Glu Phe Val Phe Leu Gly
 1          5          10          15
Leu Ser Thr Ser Lys His Ile Gln His Phe Phe Leu Ala Phe Ser Val
 20          25          30

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Val	Phe	Tyr	Val	Thr	Ile	Val	Leu	Gly	Asn	Thr	Leu	Val	Val	Phe	Thr
	35						40				45				
Leu	Ala	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Gly
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Thr	Leu	Thr	Val	Pro	Lys
65					70					75					80
Met	Ile	Ser	Asp	Leu	Ser	Ser	Gly	His	Asn	Thr	Ile	Ser	Phe	Gln	Gly
				85					90					95	
Cys	Val	Phe	Gln	Ile	Phe	Val	Leu	His	Val	Leu	Gly	Ala	Ser	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Trp	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Met	Cys	Leu	Leu	Leu
	130					135					140				
Leu	Ser	Gly	Ala	Trp	Ile	Ile	Gly	Phe	Leu	His	Ser	Val	Ala	Gln	Leu
145					150					155					160
Gly	Phe	Val	Val	His	Leu	Arg	Phe	Cys	Gly	Pro	Asn	Lys	Ile	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asp	Asn
			180					185					190		
Tyr	Arg	Met	Glu	Phe	Met	Val	Ala	Ala	Asn	Ser	Gly	Ile	Ile	Ser	Ile
		195					200						205		
Gly	Thr	Phe	Phe	Leu	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Phe	Asn
	210					215					220				
Val	Arg	Lys	His	Ser	Ser	Gly	Asp	Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Ile	Ser	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Val	Tyr	Met	Trp	Pro	Phe	Pro	Thr	Val	Pro	Val	Asp	Lys	Phe	Leu	Ala
			260					265					270		
Ile	Leu	Asp	Phe	Met	Ile	Thr	Pro	Ile	Leu	Asn	Pro	Ala	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Met	Arg	Lys	Leu	Ser	Tyr	Gln
	290					295					300				
Phe	Leu	Asn	Phe	Arg	Lys	Met	Ser								
305					310										

<210> 2041

<211> 313

<212> PRT

<213> Mus musculus

<400> 2041

Met	Phe	Lys	Lys	Asn	Tyr	Thr	Lys	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Ser	Arg	Lys	Ile	Arg	Pro	Phe	Leu	Leu	Ala	Phe	Ser	Met
			20					25					30		
Val	Leu	Tyr	Val	Ala	Ile	Val	Leu	Gly	Asn	Thr	Leu	Val	Val	Phe	Thr
		35					40					45			
Leu	Ala	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Thr	Leu	Thr	Val	Pro	Lys
65					70					75					80
Met	Ile	Ser	Asp	Leu	Ser	Ser	Gly	His	Asn	Ala	Ile	Ser	Phe	Gln	Gly
				85					90					95	
Cys	Val	Phe	Gln	Ile	Phe	Val	Leu	His	Val	Leu	Gly	Ala	Thr	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Trp	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys

Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Met	Cys	Leu	Met	Leu
130							135				140				
Leu	Ser	Gly	Ala	Trp	Val	Ile	Gly	Phe	Leu	His	Ser	Val	Thr	Gln	Leu
145							150				155				160
Ala	Phe	Ile	Ile	Lys	Leu	Asn	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asp	Pro
			180					185					190		
Lys	Lys	Met	Gln	Phe	Met	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Met
		195					200				205				
Gly	Thr	Phe	Leu	Leu	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Phe	Ile
	210					215					220				
Val	Arg	Lys	His	Ser	Ser	Ser	Gly	Asp	Leu	Ser	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Leu	Ser	Ala	His	Ile	Ser	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile
				245					250					255	
Phe	Val	Tyr	Met	Trp	Pro	Phe	Pro	Thr	Val	Pro	Val	Asp	Lys	Phe	Leu
			260					265					270		
Ala	Ile	Leu	Asp	Phe	Met	Val	Thr	Pro	Ile	Leu	Asn	Pro	Ala	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Ile	Thr
	290					295					300				
Gln	Leu	Phe	Asn	Leu	Arg	Lys	Ser	Pro							
305					310										

<210> 2042

<211> 313

<212> PRT

<213> Mus musculus

<400> 2042

Met	Pro	Met	Asp	Gln	Leu	Asn	Asp	Ser	Arg	Val	Ser	Glu	Phe	Val	Leu
1				5					10					15	
Leu	Gly	Leu	Ser	Ser	Ser	Trp	Glu	Thr	Lys	Val	Phe	Leu	Met	Val	Thr
			20					25					30		
Phe	Ser	Met	Leu	Tyr	Ile	Gly	Ile	Ile	Leu	Gly	Asn	Leu	Phe	Ile	Val
		35				40						45			
Ile	Leu	Val	Ile	Ala	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu
	50					55					60				
Leu	Ala	Asn	Leu	Ser	Leu	Asn	Asp	Val	Trp	Val	Ser	Ser	Thr	Thr	Val
65					70				75						80
Pro	Lys	Met	Ile	Ser	Asp	Leu	Leu	Lys	Glu	His	Lys	Val	Ile	Ser	Phe
				85					90					95	
His	Asn	Cys	Met	Thr	Gln	Ile	Cys	Phe	Ile	His	Ile	Met	Gly	Gly	Val
		100						105					110		
Glu	Met	Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Thr	Ala	Ile
		115					120					125			
Cys	Lys	Pro	Leu	Arg	Tyr	Leu	Ser	Ile	Met	Ser	Pro	Arg	Ile	Cys	Ile
	130					135					140				
Ser	Phe	Val	Ile	Ala	Gly	Trp	Val	Thr	Gly	Val	Val	His	Ala	Met	Ser
145					150					155					160
Gln	Phe	Ser	Phe	Val	Val	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Val
				165					170					175	
Asp	Ser	Phe	Tyr	Cys	Asp	Phe	Pro	Arg	Ile	Ile	Gln	Leu	Ala	Cys	Thr
		180					185					190			
Asp	Gly	Asp	Lys	Phe	Glu	Phe	Val	Val	Ala	Ala	Asn	Ser	Gly	Phe	Met
	195						200					205			

Ser	Met	Gly	Thr	Phe	Phe	Leu	Leu	Leu	Leu	Ser	Tyr	Val	Phe	Ile	Leu
	210					215					220				
Val	Thr	Val	Trp	Gln	Arg	Ser	Ser	Gly	Asp	Leu	Ser	Lys	Ala	Leu	Val
225					230					235					240
Thr	Leu	Ser	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Thr	Pro	Cys
				245						250					255
Met	Phe	Leu	Tyr	Val	Trp	Pro	Phe	Pro	Thr	Ser	Ser	Ile	Asp	Lys	Tyr
			260					265					270		
Leu	Phe	Ile	Ala	Asp	Phe	Ala	Ile	Thr	Pro	Ala	Leu	Asn	Pro	Val	Ile
		275					280					285			
Tyr	Thr	Phe	Arg	Asn	Lys	Asp	Ile	Arg	Ile	Ala	Ile	Gly	Arg	Leu	Ser
	290					295					300				
Lys	Arg	Ala	Val	Cys	Ser	Arg	Phe	Cys							
305					310										

<210> 2043

<211> 316

<212> PRT

<213> Mus musculus

<400> 2043

Met	Asp	Gly	Asn	Lys	Thr	Phe	Pro	Ser	Asp	Phe	Thr	Phe	Val	Gly	Leu
1				5					10					15	
Phe	Thr	His	Asn	Lys	Ala	Ser	Gly	Phe	Leu	Phe	Ser	Val	Ile	Cys	Ala
			20					25					30		
Thr	Phe	Phe	Met	Ala	Ile	Leu	Ala	Asn	Gly	Val	Met	Ile	Phe	Leu	Ile
		35					40					45			
His	Ile	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Ile	Asp	Met	Met	Tyr	Ile	Ser	Thr	Ile	Val	Pro	Lys	Ile
65					70					75					80
Leu	Val	Asp	Tyr	Ile	Val	Gly	Lys	Gly	Ile	Ile	Ser	Phe	Ala	Ala	Cys
			85						90					95	
Thr	Ala	Gln	Tyr	Phe	Leu	Tyr	Met	Gly	Phe	Val	Gly	Ala	Glu	Phe	Phe
			100					105					110		
Leu	Leu	Gly	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro
	115						120					125			
Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Arg	Arg	Val	Cys	Trp	Phe	Ile	Leu
	130					135					140				
Ala	Ser	Ser	Trp	Phe	Gly	Gly	Ala	Leu	Asp	Ser	Phe	Leu	Leu	Thr	Pro
145					150					155					160
Ile	Thr	Met	Ser	Leu	Pro	Phe	Cys	Ala	Ser	His	Lys	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ala	Pro	Thr	Met	Leu	Arg	Leu	Ala	Cys	Gly	Asp	Lys	Ala
			180					185					190		
Ile	Tyr	Glu	Met	Val	Met	Tyr	Ile	Cys	Cys	Val	Val	Met	Leu	Leu	Val
		195					200					205			
Pro	Phe	Ser	Val	Val	Ile	Thr	Ser	Tyr	Ala	Gln	Ile	Leu	Val	Thr	Val
	210					215						220			
His	His	Ile	Lys	Ser	Glu	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ala	Thr	Cys
225					230					235					240
Ser	Ser	His	Val	Ile	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ala	Leu	Tyr
				245					250					255	
Thr	Tyr	Met	Leu	Pro	Gln	Ala	Tyr	His	Thr	Pro	Leu	Lys	Asp	Lys	Ile
			260					265					270		
Phe	Ser	Ala	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Ala	Gly	Ala	Leu	Lys	Arg	Val	Ile

290		295		300							
Ala	Arg	His	Arg	Gly	Ala	Cys	Ser	Val	Glu	Arg	Lys
305				310						315	

<210> 2044  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2044

Met	Glu	Asn	His	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Ile	Thr	Ala	Cys	Pro	Glu	Leu	Gln	Pro	Leu	Phe	Val	Leu	Phe	Leu	
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ser	Leu	Ile	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Leu	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ser	Thr	Thr	Asp	Leu	Gly	Tyr	Thr	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asn	Phe	Leu	Val	Asp	Gln	Asn	Thr	Ile	Ser	Phe	His	Leu
			85						90					95	
Cys	Ala	Ile	Gln	Leu	Ser	Phe	Phe	Ser	Met	Phe	Ile	Ala	Cys	Glu	Ile
			100					105					110		
Tyr	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Phe	Tyr	Met	Val	Ile	Met	Ser	Lys	Arg	Leu	Cys	Trp	Val	Leu
	130					135					140				
Val	Val	Ile	Pro	Tyr	Val	Tyr	Cys	Thr	Ile	Val	Ala	Leu	Leu	Ile	Thr
145					150					155					160
Ile	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Ile	Ser	His
			165						170					175	
Phe	Tyr	Cys	Asp	Ser	Leu	Pro	Leu	Leu	Ser	Leu	Val	Cys	Ser	Asn	Thr
			180					185					190		
Gln	Glu	Ile	Glu	Val	Ile	Leu	Leu	Tyr	Leu	Ser	Ala	Phe	Asn	Leu	Ile
		195					200					205			
Ser	Ser	Leu	Leu	Leu	Val	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala
	210					215					220				
Ile	Ile	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Met	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Met	Gln	Arg	Lys	Ser	Ser	His	Ser	Phe	Asp	Thr	Asp	Lys
			260					265					270		
Val	Ala	Ser	Ile	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	His	Arg	Thr
	290					295					300				
Leu	Lys	Lys	Ile	His	Gly	Phe	Leu	Leu	Lys	Leu	Thr				
305					310						315				

<210> 2045  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2045

Met	Ser	Met	Glu	Asn	Ser	Ser	Thr	Gly	Thr	Lys	Phe	Ile	Leu	Leu	Gly
1				5				10					15		
Met	Thr	Asp	Asn	Tyr	Gln	Leu	Ala	Val	Leu	Leu	Phe	Gly	Leu	Phe	Phe
			20					25					30		
Ile	Ile	Tyr	Phe	Ile	Thr	Val	Leu	Gly	Asn	Leu	Gly	Leu	Val	Val	Leu
		35					40					45			
Ile	Gln	Val	Ser	His	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Val	Cys	Phe	Ser	Ser	Ile	Thr	Thr	Pro	Lys
65					70					75					80
Thr	Leu	Val	Asn	Leu	Leu	Ser	Gln	Leu	Gln	Glu	Val	Ser	Phe	Phe	Gly
			85						90					95	
Cys	Met	Ala	Gln	Met	Gly	Leu	Phe	Ile	Val	Phe	Ala	Ser	Ala	Glu	Cys
			100					105					110		
Asn	Ile	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	Leu	Tyr	His	Ile	Thr	Met	Ser	Lys	Val	Arg	Cys	Leu	Leu	Leu
	130					135					140				
Val	Ala	Gly	Cys	Tyr	Leu	Gly	Gly	Leu	Leu	Asn	Met	Val	Ala	Val	Thr
145					150					155					160
Thr	Ser	Ile	Thr	Gln	Leu	Ser	Phe	Cys	Gln	Pro	Gln	Val	Ile	Ser	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Asp	Pro
			180					185					190		
Trp	Val	Thr	Gln	Val	Leu	Val	Val	Gly	Cys	Gly	Gly	Phe	Thr	Leu	Val
		195					200					205			
Thr	Ser	Val	Met	Val	Ile	Leu	Val	Ser	Tyr	Leu	Ser	Ile	Phe	Met	Thr
	210					215					220				
Ile	Met	Gly	Ile	Pro	Ser	Val	Ser	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Leu	Tyr	Tyr	Gly	Thr	Thr	Met
				245					250					255	
Tyr	Thr	Tyr	Leu	Gln	Pro	Ser	Arg	His	Gly	Ser	Gln	Ala	Gly	Asn	Arg
			260					265					270		
Met	Ile	Ser	Val	Phe	Tyr	Thr	Met	Leu	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Val	Ala	Leu	Gln	Lys	Ile
	290					295					300				
Leu	Arg	His	Ser	Gln											
305															

<210> 2046

<211> 308

<212> PRT

<213> Mus musculus

<400> 2046

Met	Ala	Asn	Leu	Ser	Thr	Val	Ser	Val	Phe	Ile	Leu	Gln	Gly	Phe	Ser
1				5					10					15	
Ala	Val	Pro	Ala	Leu	Gln	Leu	Leu	Ser	Met	Ala	Ile	Phe	Leu	Leu	Ile
			20					25					30		
Tyr	Leu	Ala	Ala	Val	Leu	Gly	Asn	Val	Ser	Ile	Met	Ile	Ala	Val	Thr
		35				40						45			
Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Lys	His	Leu
	50					55					60				
Ser	Leu	Val	Asp	Leu	Cys	Ser	Thr	Ser	Thr	Thr	Leu	Pro	Arg	Ala	Leu
65					70					75					80
Val	Ala	Thr	Met	Ala	Asp	Thr	Lys	Glu	Ile	Ser	Leu	Pro	Ala	Cys	Ala

				85					90					95			
Ser	Gln	Leu	Phe	Ala	Phe	Val	Cys	Phe	Gly	Ser	Leu	Glu	Cys	Phe	Leu		
			100					105					110				
Ile	Thr	Ala	Met	Ala	Phe	Asp	Arg	Cys	Leu	Ala	Ile	Tyr	Arg	Pro	Leu		
		115					120					125					
Thr	Tyr	Gly	Val	Thr	Met	Ser	Ser	Gln	Thr	Cys	Val	Ser	Leu	Val	Val		
		130				135					140						
Val	Ala	Trp	Val	Ser	Gly	Leu	Leu	Phe	Ser	Thr	Phe	His	Met	Val	Asn		
145					150					155					160		
Thr	Phe	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Met	Ile	Asp	His	Phe	Phe		
				165					170					175			
Cys	Asp	Ile	Pro	Pro	Leu	Met	His	Leu	Ala	Cys	Gly	Asp	Thr	Gln	Gly		
			180					185					190				
His	Glu	Ala	Ala	Gly	Phe	Ile	Val	Ser	Gly	Cys	Val	Ile	Met	Thr	Cys		
		195					200					205					
Phe	Ala	Leu	Thr	Cys	Leu	Ser	Tyr	Val	Leu	Ile	Val	Tyr	Thr	Val	Val		
		210				215					220						
His	Ile	Arg	Ser	Ala	Ala	Gly	Arg	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Ser		
225					230					235					240		
Ser	His	Leu	Ala	Thr	Val	Leu	Leu	Phe	Tyr	Gly	Thr	Gly	Ser	Ser	Ala		
				245					250					255			
Tyr	Met	Gln	Pro	Thr	Ala	His	Tyr	Ser	Pro	Leu	Gln	Gly	Arg	Met	Ala		
			260					265					270				
Ala	Ile	Phe	Tyr	Ser	Ile	Leu	Met	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr		
		275					280					285					
Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Ala	Ala	Leu	Arg	Lys	Leu	Tyr	Pro		
		290				295					300						
Gln	Val	Pro	Ser														
305																	

<210> 2047

<211> 319

<212> PRT

<213> Mus musculus

<400> 2047

Met	Leu	Phe	Cys	Ser	Pro	Gln	Met	Glu	Thr	Ser	Leu	Glu	Leu	Thr	Asn		
1				5				10						15			
Met	Thr	Arg	Val	Gln	Gln	Phe	Val	Leu	Gly	Phe	Pro	Thr	Arg	Leu			
			20					25				30					
Gly	Ile	Arg	Asp	Ala	Leu	Phe	Val	Val	Phe	Leu	Ser	Leu	Tyr	Leu	Leu		
		35				40					45						
Thr	Leu	Leu	Glu	Asn	Thr	Leu	Ile	Ile	Tyr	Leu	Ile	Cys	Ser	His	Lys		
						55					60						
Glu	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ser	Cys	Leu		
65					70				75					80			
Glu	Met	Cys	Tyr	Val	Ser	Ala	Thr	Met	Pro	Thr	Leu	Leu	Val	Gly	Leu		
				85					90					95			
Trp	Thr	Gly	Pro	Tyr	His	Ile	Ser	Phe	Ile	Thr	Cys	Met	Thr	Gln	Leu		
			100					105					110				
Phe	Phe	Phe	Val	Ser	Leu	Ile	Cys	Thr	Glu	Cys	Thr	Leu	Leu	Ala	Ser		
		115					120					125					
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro		
		130				135					140						
Leu	Leu	Met	Arg	Pro	Gln	Val	Cys	Leu	Gly	Leu	Ala	Leu	Ser	Ser	Trp		
145					150				155						160		
Leu	Gly	Gly	Leu	Val	Val	Ser	Ala	Ile	Lys	Thr	Lys	Cys	Ile	Ala	Ser		
				165					170					175			

Leu	Ile	Tyr	Cys	Gly	Pro	Asn	Val	Leu	Asn	Gln	Phe	Phe	Cys	Asp	Val
			180					185					190		
Ser	Pro	Leu	Leu	Asn	Leu	Ser	Cys	Thr	His	Val	Ala	Leu	Thr	Glu	Leu
		195					200					205			
Val	Asp	Phe	Ile	Ser	Ala	Ile	Val	Ile	Phe	Cys	Gly	Thr	Leu	Leu	Val
	210					215					220				
Ser	Leu	Ala	Ser	Tyr	Ser	Ala	Ile	Gly	Met	Ala	Val	Leu	Arg	Met	Pro
225					230					235					240
Ser	Ala	Ala	Ala	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu
				245					250					255	
Val	Val	Val	Gly	Ile	Phe	Tyr	Ser	Ala	Ala	Leu	Phe	Ile	Tyr	Cys	Arg
			260					265					270		
Pro	Ser	Arg	Ile	Lys	Ser	Met	Asp	Leu	Asn	Lys	Val	Leu	Ser	Val	Ile
		275					280					285			
Tyr	Thr	Val	Val	Thr	Pro	Leu	Cys	Asn	Pro	Ile	Ile	Tyr	Cys	Leu	Arg
	290					295					300				
Asn	Lys	Glu	Val	His	Thr	Val	Leu	Lys	Lys	Thr	Leu	His	Trp	Pro	
305					310					315					

<210> 2048

<211> 305

<212> PRT

<213> Mus musculus

<400> 2048

Met	Glu	Leu	Asn	Arg	Thr	Gln	Leu	Thr	Glu	Phe	Val	Leu	Arg	Gly	Ile
1				5					10					15	
Thr	Asp	Arg	Ser	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Val	Phe	Phe	Leu
			20					25					30		
Ile	Tyr	Val	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Phe	Val	Ile
		35					40					45			
Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Gly	Asn
	50					55					60				
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Thr	Ser	Ser	Ser	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Met	Lys	Phe	Ser	Asn	Lys	Asn	Asp	Met	Ile	Ser	Met	Gly	Glu	Cys
				85					90					95	
Phe	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Leu	Ser	Ala	Thr	Ala	Glu	Cys	Phe
			100					105					110		
Ile	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Leu	Tyr	Val	Val	Val	Met	Ser	Asn	Arg	Leu	Cys	Ile	Gln	Phe	Ile
	130					135					140				
Gly	Val	Ser	Tyr	Leu	Ile	Gly	Leu	Leu	His	Gly	Leu	Leu	His	Val	Gly
145					150					155					160
Leu	Leu	Phe	Arg	Leu	Met	Phe	Cys	Ser	Ser	Asn	Val	Ile	Asn	His	Phe
				165					170					175	
Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Arg	Ile	Ser	Cys	Thr	Asp	Pro	Ser
			180					185					190		
Ile	Asn	Val	Leu	Val	Val	Phe	Ile	Met	Gly	Ile	Leu	Ile	Gln	Val	Ser
		195					200					205			
Thr	Phe	Met	Ser	Ile	Ile	Val	Ser	Tyr	Ile	Leu	Ile	Leu	Phe	Ala	Ile
	210					215					220				
Leu	Arg	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Asn	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Ser	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Ile
				245					250					255	
Ile	Tyr	Val	Leu	Ser	Gly	Ser	Asp	Thr	Asp	Asn	Tyr	Gln	Gly	Lys	Met





<212> PRT

<213> Mus musculus

<400> 2050

```
Met Leu Gly Asn Tyr Ser Ser Ala Thr Lys Phe Phe Leu Leu Gly Phe
 1          5          10          15
Pro Gly Thr Lys Glu Leu His His Ile Leu Phe Ala Thr Phe Leu Leu
          20          25          30
Leu Tyr Ser Val Thr Val Leu Gly Asn Met Leu Ile Ile Ile Val Val
          35          40          45
His Ala Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
          50          55          60
Leu Ser Val Leu Glu Ile Leu Ile Thr Ser Val Ala Val Pro Tyr Met
65          70          75          80
Leu Gln Gly Leu Leu Arg Gln Thr Gln Ile Ile Ser Leu Ser Ala Cys
          85          90          95
Cys Val Gln Leu Tyr Leu Tyr Leu Ser Leu Gly Ser Ser Glu Leu Ile
          100          105          110
Leu Leu Gly Val Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn Pro
          115          120          125
Leu Arg Tyr Asn Val Ile Met Ser Ser Tyr Thr Cys Thr Trp Met Val
          130          135          140
Thr Val Ser Trp Val Val Gly Phe Leu Phe Gln Ile Trp Pro Val Tyr
145          150          155          160
Ala Thr Phe Gln Leu Thr Phe Cys Lys Thr Asn Leu Leu Asp His Phe
          165          170          175
Tyr Cys Asp Leu Gly Gln Leu Phe Lys Leu Ser Cys Glu Asn Thr Leu
          180          185          190
Phe Thr Glu Leu Ile Leu Phe Leu Met Ala Val Phe Ile Ile Val Gly
          195          200          205
Ser Met Ile Leu Thr Ile Ile Ser Tyr Thr Tyr Ile Ile Ser Thr Ile
          210          215          220
Leu Lys Ile Pro Ser Ala Ser Gly Arg Arg Lys Ala Phe Ser Thr Cys
225          230          235          240
Ala Ser His Phe Thr Tyr Val Val Ile Gly Tyr Gly Ser Cys Leu Phe
          245          250          255
Leu Tyr Val Lys Pro Lys Gln Thr Gln Ala Ala Glu Tyr Asn Arg Val
          260          265          270
Val Ser Leu Leu Val Leu Val Val Glu Pro Phe Leu Asn Pro Phe Ile
          275          280          285
Phe Thr Leu Arg Asn Asp Lys Phe Ile Glu Ala Phe Arg Asp Gly Val
          290          295          300
Lys Arg Ser Cys Gln Leu Leu Lys His
305          310
```

<210> 2051

<211> 311

<212> PRT

<213> Mus musculus

<400> 2051

```
Met Asp Gln Ile Asn Glu Thr Val Ala Phe Glu Phe Val Leu Leu Gly
 1          5          10          15
Leu Ser Ser Ser Trp Lys Asn Thr Ile Phe Leu Met Ser Thr Phe Ser
          20          25          30
Leu Leu Tyr Val Ser Ile Ile Val Gly Asn Leu Phe Ile Val Phe Leu
          35          40          45
Val Ile Asn Asp Ser Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
```

50	55	60
Asn Leu Ser Leu Ile Asp Val Gly Leu Ser Ser Thr Thr Val Pro Lys		
65	70	75
Met Ile Ser Asp Leu Leu Lys Glu His Lys Val Ile Ser Phe His Ser		80
	85	90
Cys Met Thr Gln Ile Cys Ser Ile His Ile Met Gly Gly Val Glu Met		95
	100	105
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Thr Ala Ile Cys Lys		110
	115	120
Pro Leu His Tyr Met Ser Ile Met Ser Pro Arg Ile Cys Ile Ser Phe		125
	130	135
Val Ile Ala Gly Trp Val Thr Gly Val Val His Ala Met Ser Gln Phe		140
145	150	155
Ser Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser		160
	165	170
Phe Tyr Cys Asp Phe Pro Arg Ile Ile Gln Leu Ala Cys Thr Asp Arg		175
	180	185
Asp Thr Phe Glu Phe Val Val Ala Ala Asn Ser Gly Phe Met Thr Leu		190
	195	200
Gly Thr Phe Phe Leu Leu Leu Leu Ser Tyr Val Phe Ile Leu Val Thr		205
	210	215
Val Trp Gln Arg Ser Ser Gly Asp Leu Ser Lys Ala Leu Val Thr Leu		220
225	230	235
Ser Ala His Ile Thr Val Val Val Leu Phe Phe Thr Pro Cys Met Phe		240
	245	250
Leu Tyr Val Trp Pro Phe Pro Thr Ser Ser Thr Asp Lys Tyr Leu Phe		255
	260	265
Ile Val Asp Phe Ala Val Thr Pro Ala Leu Asn Pro Val Ile Tyr Thr		270
	275	280
Leu Arg Asn Lys Asp Met Lys Glu Ala Ile Lys Lys Leu Ser Lys Gln		285
	290	300
Arg Cys Tyr Ile Arg Ile Phe		
305	310	

<210> 2052  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2052

Met Lys Arg Lys Leu Arg His Leu Thr Val Val Met Ser Ile Tyr Asn	
1	5
Lys Ser Asp Val His Pro Ser Thr Phe Ile Leu Ile Gly Ile Pro Gly	
	10
	15
Leu Glu Ala Ala His Met Trp Ile Ser Ile Pro Phe Cys Met Val Tyr	
	20
	25
	30
Val Leu Ala Leu Met Gly Asn Ser Ser Leu Leu Phe Ile Ile Lys Thr	
	35
	40
	45
Asp Ser Ser Leu His Glu Pro Met Tyr Leu Phe Leu Cys Met Leu Ala	
65	70
	75
Val Ala Asp Leu Val Val Cys Thr Thr Ala Val Pro Lys Leu Leu Ser	
	80
	85
	90
Leu Phe Trp Phe His Asp Gly Glu Ile Arg Phe Glu Ala Cys Leu Thr	
	95
	100
	105
Gln Ile Phe Leu Ile His Ser Cys Thr Met Glu Ser Gly Phe Phe	
	110
	115
	120
	125
Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg	
	130
	135
	140

His	Ser	Ala	Ile	Leu	Thr	His	Thr	Val	Thr	Gly	Gly	Ile	Gly	Leu	Ala
145					150					155					160
Val	Val	Ile	Arg	Gly	Ile	Ala	Leu	Leu	Ser	Pro	His	Pro	Phe	Leu	Leu
				165					170					175	
Arg	Trp	Leu	Pro	Tyr	Cys	Lys	Thr	Asn	Ile	Ile	Ser	His	Thr	Tyr	Cys
			180					185					190		
Glu	Phe	Met	Ala	Leu	Ile	Lys	Ile	Ala	Cys	Ala	Glu	Thr	Ser	Ile	Arg
		195					200					205			
Arg	Ala	Tyr	Ser	Leu	Ile	Val	Ala	Phe	Leu	Thr	Gly	Gly	Val	Asp	Phe
	210					215					220				
Ile	Leu	Ile	Ile	Cys	Ser	Tyr	Val	Leu	Ile	Leu	Asn	Thr	Val	Phe	His
225				230						235					240
Leu	Pro	Thr	Lys	Asp	Ala	Arg	Leu	Lys	Thr	Leu	Gly	Thr	Cys	Gly	Ser
				245					250					255	
His	Val	Cys	Val	Ile	Leu	Val	Ser	Tyr	Thr	Pro	Ala	Phe	Phe	Ser	Phe
			260					265					270		
Leu	Thr	His	Arg	Phe	Gly	His	Lys	Val	Ala	Pro	Gln	Val	His	Ile	Phe
		275					280					285			
Val	Ala	Asn	Ile	Tyr	Leu	Leu	Val	Pro	Pro	Met	Val	Asn	Pro	Ile	Ile
	290					295					300				
Tyr	Gly	Val	Arg	Thr	Lys	Lys	Ile	Arg	Asn	Arg	Phe	Leu	Lys	Val	Phe
305					310					315					320
Arg	Phe	Ser	Lys	His	Thr	Asn									
				325											

<210> 2053

<211> 341

<212> PRT

<213> Mus musculus

<400> 2053

Met	Gln	Val	Val	Ser	Leu	Leu	Leu	Pro	Ser	Gly	Thr	Leu	Pro	Gly	Ser
1				5					10					15	
Thr	Met	Met	Pro	Cys	Asn	Ser	Thr	Ser	His	Pro	Ser	Phe	Phe	Ile	Leu
			20					25					30		
Gln	Gly	Ile	Pro	Gly	Met	Glu	Asp	Lys	His	Lys	Trp	Ile	Ser	Ile	Pro
		35				40						45			
Phe	Ser	Ser	Met	Tyr	Phe	Ile	Thr	Val	Met	Gly	Asn	Cys	Thr	Ile	Leu
	50					55				60					
Leu	Thr	Ile	Ser	Met	Glu	Arg	Ser	Leu	His	Lys	Pro	Met	Phe	Leu	Leu
65					70					75					80
Leu	Phe	Phe	Leu	Ala	Leu	Thr	Asp	Leu	Gly	Met	Ser	Thr	Thr	Thr	Ile
				85					90					95	
Pro	Lys	Val	Leu	Cys	Ile	Phe	Trp	Phe	Gly	Gln	Ser	Gln	Ile	Ser	Tyr
			100					105					110		
Glu	Gly	Cys	Leu	Val	Gln	Leu	Phe	Phe	Ile	His	Ser	Ile	Ser	Ala	Met
		115					120					125			
Gln	Ser	Ser	Val	Leu	Met	Thr	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
	130					135					140				
Cys	Lys	Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Ser	Asn	Ser	Arg	Ile	Gly
145					150					155					160
Leu	Ile	Gly	Leu	Ala	Ser	Leu	Val	Arg	Ala	Ile	Leu	Phe	Ile	Leu	Pro
				165					170					175	
Met	Pro	Ile	Leu	Leu	Gln	Arg	Met	Pro	Phe	His	Ala	Asn	Arg	Val	Ile
			180					185					190		
Pro	Thr	Thr	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Met	Val	Cys	Val
		195					200					205			
Asp	Thr	Thr	Phe	Asn	Arg	Ile	Tyr	Gly	Leu	Val	Val	Ala	Met	Leu	Val

210		215		220	
Val Gly Val Asp Ile Ser	Ala Ile Ala Ser Ser	Tyr Ala Leu Ile Leu			
225	230	235	240		
Arg Ala Ile Met His Leu	Ser Ser Lys Glu Ala His His Lys Ala Val				
	245	250	255		
Asn Thr Cys Thr Thr His Ile Cys Val Met Leu Val Ser Tyr Thr Pro					
	260	265	270		
Ser Leu Phe Ser Phe Leu Thr His Arg Phe Gly Arg Gly Ile Pro Pro					
	275	280	285		
His Val His Thr Ile Leu Gly Asn Leu Tyr Phe Leu Val Pro Pro Met					
	290	295	300		
Leu Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Glu Phe Arg Asp Lys					
305	310	315	320		
Ile Thr Lys Tyr Leu Tyr Arg Arg Lys Glu Pro Ile Ile Phe Ser His					
	325	330	335		
Asn Gln Lys Leu Val					
	340				

<210> 2054  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2054

Met Glu Arg Arg Asn His Thr Gly Arg Val Ser Glu Phe Val Leu Leu	
1 5 10 15	
Gly Phe Pro Ala Pro Ala Pro Leu Arg Ala Leu Leu Phe Phe Leu Ser	
20 25 30	
Leu Leu Ala Tyr Val Leu Val Leu Thr Glu Asn Ile Leu Ile Ile Thr	
35 40 45	
Ala Ile Arg Asn His Pro Thr Leu His Lys Pro Met Tyr Phe Phe Leu	
50 55 60	
Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile Pro	
65 70 75 80	
Lys Met Leu Ala Gly Phe Ile Gly Ser Glu Glu Asn His Gly Gln Leu	
85 90 95	
Ile Ser Phe Glu Ala Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly Leu	
100 105 110	
Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr	
115 120 125	
Val Ala Ile Cys His Pro Leu His Tyr Pro Val Ile Val Ser Ser Arg	
130 135 140	
Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly Ile	
145 150 155 160	
Ser Met Val Lys Val Phe Leu Ile Ser Arg Leu Ser Tyr Cys Gly Pro	
165 170 175	
Asn Thr Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn Leu	
180 185 190	
Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu Ala	
195 200 205	
Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr Met	
210 215 220	
Ala Ile Thr Gly Ala Val Met Arg Ile Pro Ser Ala Ala Gly Arg His	
225 230 235 240	
Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Ile Phe	
245 250 255	
Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser Ala	
260 265 270	

Phe	Asp	Thr	Asn	Lys	Leu	Val	Ser	Val	Leu	Tyr	Ala	Val	Ile	Val	Pro
		275					280				285				
Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Cys	Leu	Arg	Asn	Gln	Glu	Val	Lys	Lys
	290					295					300				
Ala	Leu	Arg	Arg	Thr	Leu	His	Leu	Ala	Gln	Gly	Gln	Asp	Ala	Asn	Thr
305					310					315					320
Lys	Lys	Ser	Ser	Arg	Asp	Gly									
				325											

<210> 2055  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2055

Met	Arg	Asn	His	Thr	Val	Met	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gly	Leu	Gln	Leu	Leu	Phe	Phe	Val	Ile	Leu	Phe	Leu	Thr
			20					25					30		
Tyr	Ile	Leu	Ser	Ile	Met	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu
	35					40						45			
Met	Asp	Ser	His	Leu	Asn	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70				75						80
Tyr	Ser	Ile	Ser	Thr	Gly	Val	Asn	Thr	Ile	Thr	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ser	Gln	Ile	Phe	Phe	Val	Gly	Leu	Phe	Gly	Ala	Thr	Glu	Phe	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Thr	Ile	Met	Asp	Asn	Lys	Val	Cys	Ala	Ile	Leu	Val	Leu
	130					135					140				
Cys	Cys	Trp	Thr	Ser	Gly	Leu	Leu	Val	Ile	Ile	Ile	Pro	Leu	Gly	Met
145					150					155					160
Ile	Leu	Gln	Leu	Glu	Phe	Cys	Asp	Ser	Asn	Thr	Ile	Asp	His	Phe	Phe
				165					170					175	
Cys	Asp	Ala	Ser	Pro	Leu	Ile	Lys	Ile	Ser	Cys	Ser	Asp	Thr	Trp	Phe
			180					185					190		
Leu	Glu	Gln	Thr	Val	Ile	Val	Cys	Ala	Val	Leu	Thr	Phe	Ile	Ile	Thr
		195					200					205			
Leu	Ile	Val	Val	Ile	Leu	Ser	Tyr	Ile	Tyr	Ile	Ile	Arg	Thr	Ile	Leu
	210					215					220				
Arg	Phe	Pro	Ser	Ala	His	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Ile	Val	Val	Ser	Ile	Met	Tyr	Gly	Ser	Cys	Ile	Phe	Ile
				245					250					255	
Tyr	Val	Thr	Pro	Ser	Ala	Lys	Glu	Gln	Val	Asp	Ile	Asn	Lys	Gly	Val
			260					265					270		
Ser	Met	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Phe	Asn	Asp	Thr	Val	Lys
	290					295					300				
Lys	Leu	His	Thr	Ser	Tyr	Thr	Asn	Lys	Asn	Met	Leu	Asp	Leu	Ser	Ser
305					310					315					320

<210> 2056

<211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2056

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Met Thr Pro Arg Asn Met Thr Thr Val Ser Gly Phe Leu Leu Met Gly
 1          5          10          15
Phe Ser Asp Asn His Glu Leu Gln Ile Leu Gln Ala Leu Leu Phe Leu
          20          25          30
Val Thr Tyr Leu Leu Asp Ser Ala Gly Asn Phe Ile Ile Ile Thr Ile
          35          40          45
Thr Thr Ile Asp Lys Gln Leu Gln Ser Pro Met Tyr Tyr Phe Leu Lys
          50          55          60
His Leu Ser Ile Met Asp Phe Ser Ser Leu Ser Val Thr Val Pro Gln
          65          70          75          80
Tyr Val Asp Ser Ser Leu Ala Arg Ser Gly Tyr Ile Ser Tyr Gly Gln
          85          90          95
Cys Met Leu Gln Val Phe Phe Phe Thr Gly Leu Ala Trp Ser Glu Val
          100          105          110
Ala Ile Leu Thr Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Leu
          115          120          125
Pro Leu His Tyr Glu Val Ile Met Ser Pro Arg Lys Cys Thr Trp Ala
          130          135          140
Val Ala Ala Val Trp Leu Ser Gly Gly Ile Ser Gly Thr Leu Phe Thr
          145          150          155          160
Ala Ser Thr Leu Ser Ile Arg Phe Cys Gly His Lys Ile Ile His Gln
          165          170          175
Phe Phe Cys Asp Ile Pro Gln Leu Leu Lys Leu Ser Cys Ser Asn Asp
          180          185          190
Asp Phe Gly Leu Leu Lys Val Ser Thr Phe Ile Ala Val Met Gly Phe
          195          200          205
Ala Cys Phe Val Gly Ile Ala Phe Ser Tyr Cys Gln Ile Phe Ser Thr
          210          215          220
Val Leu Arg Met Pro Ser Ala Glu Gly Arg Ser Lys Val Phe Ser Thr
          225          230          235          240
Cys Leu Pro His Leu Phe Val Val Ser Phe Phe Leu Ser Thr Gly Ile
          245          250          255
Cys Ala Tyr Leu Lys Pro Thr Ser Asp Ser Pro Thr Ala Leu Asp Leu
          260          265          270
Met Leu Ser Ile Phe Tyr Thr Val Leu Pro Pro Thr Leu Asn Pro Val
          275          280          285
Ile Tyr Ser Leu Arg Asn Glu Ser Leu Lys Arg Ala Val Lys Lys Leu
          290          295          300
Leu Leu Ser Glu Glu Phe Ile Gly Lys Asn Tyr Val Cys Ser Val Phe
          305          310          315          320
Ser Ala Cys

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<210> 2057  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2057

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Met Glu Pro Gln Asn Leu Ser Lys Val Thr Glu Phe Gln Leu Leu Gly
 1          5          10          15
Phe Gln Asn Leu Leu Glu Trp Gln Ser Leu Leu Phe Ala Ile Phe Leu
          20          25          30

```

Cys	Phe	Tyr	Leu	Leu	Thr	Ile	Thr	Gly	Asn	Met	Val	Ile	Ile	Gly	Val
	35						40					45			
Val	Ser	Glu	Asp	Pro	Arg	Leu	Arg	Ala	Pro	Met	Tyr	Thr	Phe	Leu	Gln
	50					55					60				
His	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Ser	Thr	Thr	Val	Pro	Leu
65					70					75					80
Leu	Leu	Ser	Asn	Leu	Ala	Ser	Trp	Gly	His	Met	Leu	Ser	Phe	Ser	Ala
			85						90					95	
Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Val	Phe	Phe	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Ser	Leu	Leu	Met	Ser	Pro	Asp	Asn	Cys	Ala	Ala	Leu
	130					135					140				
Val	Thr	Val	Ser	Trp	Val	Thr	Gly	Val	Gly	Thr	Gly	Phe	Leu	Pro	Ser
145					150					155					160
Leu	Leu	Ile	Ser	Lys	Leu	Asp	Phe	Cys	Gly	Pro	Asn	Arg	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Ile	Gln	Leu	Ser	Cys	Ser	Ser	Val
			180					185					190		
Tyr	Val	Thr	Glu	Met	Ala	Ile	Phe	Val	Leu	Ser	Ile	Ala	Val	Leu	Cys
	195						200					205			
Ile	Cys	Phe	Leu	Leu	Thr	Leu	Val	Ser	Tyr	Val	Phe	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Pro	Ser	Thr	Ser	Gly	Arg	Met	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ala	Val	Val	Thr	Ile	Tyr	Tyr	Gly	Thr	Met	Ile
				245					250					255	
Ser	Met	Tyr	Val	Arg	Pro	Asn	Ala	His	Leu	Ser	Pro	Glu	Leu	Asn	Lys
			260					265					270		
Val	Ile	Ser	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Phe	Lys	Glu	Ala	Val	Arg	Lys	Ile
	290					295				300					
Val	Arg	Thr	Lys	Cys	Gly	Val	Tyr	Arg	Ala	Arg	Val	Lys	Gly	Ser	Ala
305					310					315					320
Leu	Thr	Thr													

<210> 2058

<211> 325

<212> PRT

<213> Mus musculus

<400> 2058

Met	Lys	Tyr	Phe	Cys	Leu	Pro	Arg	Phe	Ser	Ile	Ile	Ser	Met	Leu	Thr
1				5					10					15	
Gly	Asn	Gly	Ser	Phe	Val	Thr	Glu	Phe	Val	Leu	Ala	Gly	Leu	Thr	Asp
			20					25					30		
Arg	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Tyr	Leu	Phe	Leu	Ile	Ile	Tyr
		35					40					45			
Thr	Val	Thr	Val	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ile	Leu	Ile	Gly	Leu
	50					55					60				
Asn	Pro	His	Leu	Tyr	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser
65					70					75					80
Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ser	Ser	Pro	Lys	Met	Leu	Met
				85					90					95	
Asn	Phe	Val	Phe	Glu	Lys	Asn	Ser	Ile	Ser	Tyr	Glu	Gly	Cys	Met	Thr



Gln	Leu	Phe	100	Phe	Phe	Leu	Phe	105	Val	Ile	Ser	Glu	Cys	110	Tyr	Met	Leu
		115						120					125				
Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu		
	130					135					140						
Tyr	Lys	Val	Thr	Met	Ser	Pro	Gln	Val	Cys	Ser	Met	Leu	Ser	Phe	Ala		
145					150				155						160		
Ser	Tyr	Gly	Met	Ala	Phe	Ala	Gly	Ala	Ser	Ala	His	Thr	Gly	Cys	Met		
			165					170						175			
Leu	Arg	Leu	Ile	Phe	Cys	Asn	Ala	Asn	Val	Ile	Asn	Phe	Tyr	Leu	Cys		
			180					185					190				
Asp	Ile	Leu	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser	Thr	Tyr	Val	Asn		
	195						200					205					
Glu	Val	Val	Val	Leu	Ile	Val	Val	Gly	Ile	Asn	Ile	Thr	Val	Pro	Ser		
	210					215				220							
Phe	Thr	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Leu	Ala	Asn	Ile	Leu	Asn		
225					230				235						240		
Ile	Lys	Ser	Thr	Gln	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser		
				245				250						255			
His	Ile	Met	Ala	Ile	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala	Phe	Met	Tyr		
			260				265						270				
Leu	Asn	His	Ser	Gly	Ser	Met	Asp	Gln	Gly	Lys	Ile	Ser	Ser	Val	Phe		
	275						280					285					
Tyr	Thr	Asn	Val	Val	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg		
	290					295					300						
Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys	Val	Met	Met	Arg	Val	His		
305					310					315					320		
Ser	Arg	Phe	Ile	Ser													
				325													

<210> 2059

<211> 327

<212> PRT

<213> Mus musculus

<400> 2059

Met	Asn	Ser	Glu	Asn	Phe	Thr	Arg	Ser	Arg	Val	Met	Pro	Ala	Glu	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Ile	Thr	Asn	Arg	Trp	Asp	Met	Arg	Val	Thr	Leu	Phe
			20					25					30		
Leu	Ile	Phe	Leu	Pro	Ile	Tyr	Leu	Val	Ser	Leu	Leu	Gly	Asn	Val	Gly
		35					40					45			
Met	Val	Leu	Leu	Ile	Arg	Ile	Asp	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ala	Asn	Leu	Ser	Leu	Leu	Asp	Ala	Phe	Tyr	Ser	Ser	Ala
65				70					75					80	
Ile	Gly	Pro	Lys	Met	Leu	Val	Asp	Leu	Leu	Ser	Arg	Ala	Thr	Ile	
				85				90					95		
Pro	Tyr	Val	Ala	Cys	Ala	Leu	Gln	Met	Phe	Val	Phe	Ala	Gly	Leu	Ala
			100					105					110		
Asp	Ala	Glu	Cys	Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val
	115						120					125			
Ala	Ile	Gly	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Val	Met	Ser	Pro	Arg	Leu
	130					135					140				
Cys	Leu	Ala	Leu	Leu	Gly	Ala	Ser	Gly	Leu	Gly	Gly	Ala	Val	Ser	Ala
145					150					155					160
Phe	Val	His	Thr	Thr	Phe	Thr	Phe	Arg	Leu	Ser	Phe	Cys	Gly	Ser	Leu
				165					170					175	

Glu	Val	Asn	Ser	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser		
			180					185					190				
Cys	Asn	Asp	Thr	Ser	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ala	Val	Cys	Gly		
		195					200					205					
Phe	Ile	Gln	Thr	Thr	Thr	Val	Leu	Ala	Ile	Ala	Val	Ser	Tyr	Gly	Phe		
	210					215					220						
Ile	Ala	Val	Ala	Val	Ile	Arg	Met	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Arg		
225					230					235					240		
Ala	Ala	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Ile	Leu	Tyr		
				245					250					255			
Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ala	Leu		
			260					265					270				
Asp	Thr	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Ala		
		275					280					285					
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala		
	290					295					300						
Phe	Gln	Arg	Thr	Trp	His	Arg	Phe	Cys	Cys	Pro	Gly	Arg	Ser	Thr	Arg		
305					310					315					320		
Asp	Trp	Pro	Gln	Glu	Ala	His											
				325													

<210> 2060

<211> 318

<212> PRT

<213> Mus musculus

<400> 2060

Met	Gly	Gln	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Thr		
1				5					10					15			
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Ser	Leu	Met		
			20					25					30				
Tyr	Ile	Ala	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile		
		35				40						45					
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu		
	50					55					60						
Ser	Leu	Met	Asp	Ala	Val	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Ile		
65				70					75					80			
Val	Asp	Leu	Leu	Arg	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Ile		
				85					90					95			
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile		
			100					105					110				
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu		
		115					120					125					
His	Tyr	Leu	Ile	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Phe	Leu	Val		
	130				135						140						
Met	Ala	Trp	Val	Gly	Gly	Phe	Val	His	Ser	Leu	Phe	Gln	Val	Leu	Ala		
145				150						155				160			
Val	Tyr	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Phe	Gly		
				165					170					175			
Cys	Asp	Ile	Tyr	Pro	Leu	Leu	Leu	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Phe		
			180					185					190				
Leu	Gly	Leu	Thr	Ile	Ile	Ala	Asn	Gly	Gly	Ala	Met	Cys	Ile	Val	Ile		
		195					200					205					
Phe	Ile	Leu	Leu	Leu	Leu	Ser	Tyr	Ala	Ile	Ile	Leu	Arg	Ser	Leu	Gln		
	210					215						220					
Asn	His	Ser	Lys	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ile	Ser		
225				230						235				240			
His	Ile	Thr	Val	Val	Phe	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr		



<210> 2062  
 <211> 325  
 <212> PRT  
 <213> Mus musculus

<400> 2062  
 Met Tyr Val Ala Asn Ser Ser Arg Met Asn Ala Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr Asp Asn Pro Asp Leu Glu Ala Pro Leu Phe Ile Ile Phe Asn  
 20 25 30  
 Leu Ile Tyr Leu Ile Thr Leu Ile Gly Asn Leu Gly Met Ile Val Leu  
 35 40 45  
 Ile Trp Phe Asp Ser His Leu His Thr Pro Met Tyr Ile Phe Leu Ser  
 50 55 60  
 His Leu Ser Leu Ala Asp Cys Val Tyr Ser Ser Ala Val Thr Pro Lys  
 65 70 75 80  
 Val Met Val Gly Leu Leu Thr Gly Asp Lys Val Ile Ser Tyr Gly Gly  
 85 90 95  
 Cys Val Ala Gln Met Phe Phe Phe Val Thr Phe Ala Ser Val Asp Cys  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Phe Asp Arg His Ala Val Cys Lys  
 115 120 125  
 Pro Leu His Tyr Thr Thr Asn Met Thr Thr Ser Val Cys Ala Cys Met  
 130 135 140  
 Val Ile Ala Cys Tyr Val Phe Ser Leu Ala Glu Ser Ser Val Tyr Thr  
 145 150 155 160  
 Gly Phe Ile Phe Asp Leu Ser Phe Cys His Ser Asn Val Ile His His  
 165 170 175  
 Phe Phe Cys Asp Ile Pro Pro Ile Leu Asn Leu Ser Cys Ser Asp Ile  
 180 185 190  
 Tyr Thr Asn Glu Ile Val Leu Phe Ile Ile Thr Ser Phe Asn Val Phe  
 195 200 205  
 Phe Ser Leu Ile Val Ile Leu Thr Ser Tyr Ala Phe Ile Phe Ile Ala  
 210 215 220  
 Ile Leu Arg Met His Ser Ala Glu Gly Arg Lys Lys Ala Ser Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Ile Ile  
 245 250 255  
 Phe Met Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Asn Asp Gln  
 260 265 270  
 Met Ala Ser Val Phe Tyr Thr Thr Val Val Pro Met Leu Asn Pro Val  
 275 280 285  
 Val Tyr Ser Leu Arg Asn Lys Glu Val His Ser Ala Phe Lys Lys Ala  
 290 295 300  
 Ile Glu Lys Leu Lys Ser Ala Gln His Gln Val Leu Ile Arg Asp Leu  
 305 310 315 320  
 Tyr Ser Leu Cys Asn  
 325

<210> 2063  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2063  
 Met Glu Glu Asn Gln Thr Thr Val Thr Glu Phe Ile Leu Leu Gly Phe

1	5	10	15												
Cys	Leu	Gly	Pro	Arg	Ile	His	Leu	Val	Leu	Phe	Leu	Leu	Phe	Ser	Leu
	20							25					30		
Phe	Tyr	Thr	Leu	Thr	Ile	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Ala	Met	Ile
	35						40					45			
Cys	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Ile	Val	Asp	Met	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Gln	Thr
65					70					75					80
Leu	Ile	Asn	Leu	Leu	Asp	Glu	Thr	Arg	Pro	Ile	Thr	Phe	Ala	Gly	Cys
				85					90					95	
Met	Thr	Gln	Thr	Tyr	Leu	Phe	Leu	Thr	Phe	Ala	Ile	Thr	Glu	Cys	Leu
			100					105					110		
Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Asn	Trp	Arg	Val	Cys	Thr	Ile	Met	Ala
	130					135					140				
Ala	Val	Ser	Trp	Ile	Val	Ser	Phe	Leu	Leu	Ser	Leu	Val	His	Leu	Leu
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Ile	Asn	His	Phe
				165				170						175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr
			180					185					190		
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Thr	Leu	Val	Gly
		195					200					205			
Pro	Leu	Cys	Phe	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Arg	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
				245					250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Glu	Gln	Gln	Lys	Ile
			260					265					270		
Leu	Phe	Leu	Phe	Tyr	Ser	Phe	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ala	Leu
	290					295					300				
Cys	Lys	Glu	Ser	His	Ser	Cys	Leu	Val	Trp	Cys	Ser	His	His	Lys	Pro
305					310					315					320
Trp															

<210> 2064  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2064
Met Glu Glu Asn Gln Thr Met Val Thr Glu Phe Val Leu Leu Gly Phe
1 5 10 15
Cys Leu Gly Pro Arg Ile His Leu Val Leu Phe Leu Leu Phe Ser Leu
20 25 30
Phe Tyr Thr Leu Thr Ile Leu Gly Asn Gly Thr Ile Leu Ala Met Ile
35 40 45
Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
50 55 60
Leu Ala Ile Val Asp Met Ala Tyr Ala Cys Asn Thr Val Pro Gln Thr
65 70 75 80

Leu	Ile	Asn	Leu	Leu	Asp	Glu	Thr	Arg	Pro	Ile	Thr	Phe	Ala	Gly	Cys	
				85					90					95		
Met	Thr	Gln	Thr	Phe	Leu	Phe	Leu	Ala	Phe	Ala	His	Thr	Glu	Cys	Val	
			100					105					110			
Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	
		115					120					125				
Leu	His	Tyr	Thr	Val	Ile	Met	Asn	Trp	Arg	Val	Cys	Thr	Ile	Leu	Ala	
	130					135					140					
Ala	Val	Ser	Trp	Ile	Phe	Ser	Phe	Leu	Leu	Ala	Leu	Val	His	Leu	Val	
145					150					155					160	
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Ile	Asn	His	Phe	
			165					170						175		
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr	
			180					185					190			
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Ile	Leu	Val	Ala	
	195						200					205				
Pro	Leu	Cys	Phe	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Ala	Ile	
	210					215					220					
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	
225					230					235					240	
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val	
			245						250					255		
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Glu	Gln	Gln	Lys	Val	
			260					265					270			
Leu	Phe	Leu	Phe	Tyr	Ser	Phe	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile	
		275					280					285				
Tyr	Ser	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Lys	Arg	Ser	Leu	
	290					295					300					
Cys	Lys	Glu	Ser	His	Ser	Trp	Leu	Val	Trp	Cys	Ser	Asp	His	Lys	Ser	
305					310					315					320	
Trp																

<210> 2065  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2065

Met	Ala	Thr	Lys	Asn	Arg	Thr	Glu	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	
1				5					10					15		
Leu	Ser	Ser	Gln	Pro	Glu	Met	Gln	Pro	Val	Ile	Phe	Gly	Val	Val	Leu	
			20					25					30			
Ile	Met	Tyr	Leu	Met	Ala	Val	Leu	Gly	Asn	Thr	Leu	Leu	Val	Leu	Val	
		35					40					45				
Ala	Cys	Ser	Asp	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	
	50					55				60						
Gln	Leu	Ser	Leu	Ile	Asp	Ile	Ser	Leu	Thr	Thr	Ile	Ile	Val	Pro	Gln	
65					70					75					80	
Met	Leu	Val	His	Thr	Leu	Ser	Val	Asn	Arg	Thr	Ile	Ser	Tyr	Asn	Cys	
				85					90					95		
Cys	Met	Thr	Gln	Leu	Phe	Ser	Phe	Met	Thr	Val	Gly	Ser	Met	Glu	Val	
			100					105					110			
His	Leu	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asp	
		115					120					125				
Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Val	Ser	His	Ser	Leu	Cys	Leu	Arg	Ile	
	130					135					140					
Thr	Leu	Thr	Ser	Trp	Val	Val	Val	Ser	Leu	Asn	Ser	Leu	Leu	Tyr	Ser	

145					150					155					160
Val	Leu	Val	Thr	Arg	Leu	Thr	Phe	Cys	Gly	Asn	Lys	Val	Thr	His	Phe
				165					170					175	
Phe	Cys	Asp	Ile	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Arg	Pro	Val
			180					185					190		
Val	Asn	Glu	Met	Leu	Ile	Phe	Thr	Glu	Gly	Val	Ala	Val	Val	Val	Ser
		195					200					205			
Pro	Ile	Phe	Phe	Ile	Phe	Gly	Ser	Tyr	Val	Arg	Ile	Gly	Ile	Val	Ile
	210					215					220				
Ala	His	Met	His	Ser	Val	Ala	Ala	Leu	Gln	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Val	Leu	Val	Val	Met	Phe	Leu	Phe	Gly	Ser	Leu	Val	His
			245					250						255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ser	Tyr	Asn	Leu	Glu	Gln	Asp	Arg	Gln
		260						265					270		
Val	Ala	Ile	Phe	Tyr	Thr	Leu	Ile	Ser	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Gly	Ala	Leu	Trp	Arg	Leu	Phe
	290				295					300					
Arg	Lys	Leu	Tyr	Leu	Arg	Gln	Cys	Pro	Ala	Trp	Ile	Ser	His	Asn	Thr
305					310					315					320
Cys	Gln														

<210> 2066  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 2066

Met	Pro	Leu	Leu	Phe	Ser	Arg	Ala	Ala	Cys	Ala	Met	Ser	Met	Arg	
1			5					10					15		
Asn	His	Thr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Ile	Ser	Asn	Thr
			20				25					30			
Glu	Gly	Leu	Glu	Ser	Met	Leu	Phe	Ala	Leu	Phe	Leu	Val	Phe	Tyr	Val
	35					40					45				
Phe	Ala	Leu	Leu	Gly	Asn	Leu	Ile	Phe	Leu	Thr	Ile	Leu	Ala	Ser	
	50				55				60						
Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ala	Val
65				70				75						80	
Phe	Asp	Ile	Phe	Phe	Pro	Ser	Val	Asn	Ser	Pro	Lys	Met	Met	Asp	Tyr
			85					90					95		
Leu	Val	Arg	Gln	Gly	Arg	Thr	Ile	Ser	Tyr	Gln	Gly	Cys	Ala	Ser	Gln
			100				105					110			
Ile	Phe	Phe	Tyr	His	Thr	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu	Tyr	Thr
	115					120					125				
Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Tyr	Pro	Met	Arg	Tyr
	130				135					140					
Thr	Val	Ile	Met	Asn	Pro	Arg	Val	Cys	Thr	Cys	Phe	Thr	Val	Gly	Thr
145				150				155						160	
Trp	Leu	Gly	Gly	Phe	Val	His	Gly	Ser	Ile	Leu	Thr	Phe	Leu	Ile	Phe
			165					170					175		
Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Ser	Phe	Phe	Cys	Asp
		180					185					190			
Ile	Pro	Val	Val	Leu	Ser	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Leu	Ala	Gln
	195					200						205			
Thr	Val	Ser	Phe	Thr	Asn	Val	Gly	Val	Val	Ala	Leu	Thr	Cys	Phe	Leu
	210					215					220				

Leu	Val	Leu	Thr	Ser	Tyr	Thr	Arg	Ile	Val	Ile	Ser	Ile	Leu	Lys	Ile
225					230					235					240
Arg	Ser	Ser	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala	His
				245					250					255	
Phe	Thr	Ser	Ile	Leu	Leu	Phe	Tyr	Gly	Pro	Val	Ile	Leu	Val	Tyr	Leu
			260					265					270		
Arg	Pro	Ala	Ser	Ser	Pro	Trp	Leu	Asp	Ser	Val	Val	Gln	Val	Phe	Asn
		275					280					285			
Asn	Val	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
	290					295					300				
Lys	Glu	Val	Lys	Leu	Ala	Leu	Arg	Lys	Met	Leu	Ser	Gln	Ala	Met	Gln
305					310					315					320
Pro	Leu	Gly	Tyr	Lys	Glu										
				325											

<210> 2067

<211> 322

<212> PRT

<213> Mus musculus

<400> 2067

Met	Glu	Lys	Ile	Thr	Ser	Ala	Val	Asp	Val	His	Asn	Ile	Pro	Leu	Lys
1				5					10					15	
Asn	Met	Thr	Glu	Ala	Thr	Met	Phe	Ile	Leu	Leu	Gly	Phe	Thr	Asp	Asp
			20					25					30		
Phe	Glu	Leu	Gln	Val	Phe	Leu	Phe	Leu	Leu	Phe	Leu	Ala	Ile	Tyr	Leu
	35						40					45			
Phe	Thr	Leu	Val	Gly	Asn	Phe	Gly	Leu	Val	Val	Leu	Val	Ile	Gly	Asp
	50				55						60				
Cys	Arg	Leu	His	Asn	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Phe
65				70					75						80
Leu	Asp	Ala	Cys	Tyr	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Asn
			85						90					95	
Phe	Leu	Ser	Glu	Asn	Lys	Ser	Ile	Ser	Phe	Leu	Ala	Cys	Ala	Thr	Gln
			100					105					110		
Met	Leu	Leu	Phe	Val	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Phe	Leu	Leu	Ala
	115						120					125			
Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Tyr	Asn	Pro	Leu	Leu	Tyr
	130					135					140				
Thr	Val	Ala	Met	Ser	Pro	Arg	Val	Tyr	Leu	Pro	Leu	Ile	Ile	Ala	Ser
145					150					155					160
Tyr	Ala	Gly	Gly	Val	Val	His	Gly	Ala	Ile	His	Thr	Val	Ala	Thr	Phe
				165					170					175	
Ser	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Lys	His	Val	Phe	Cys	Asp
			180					185					190		
Ile	Pro	Ala	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr	His	Thr	Asn	Glu
	195						200						205		
Leu	Leu	Val	Leu	Tyr	Leu	Val	Gly	Leu	Ile	Glu	Ile	Val	Thr	Ile	Leu
	210					215					220				
Ile	Val	Leu	Val	Ser	Tyr	Gly	Phe	Ile	Leu	Phe	Ala	Ile	Leu	Asn	Met
225					230					235					240
His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His
				245					250					255	
Leu	Thr	Gly	Val	Ser	Ile	Tyr	His	Gly	Thr	Ile	Leu	Phe	Thr	Tyr	Met
			260					265					270		
Arg	Pro	Ser	Ser	Ser	Tyr	Ala	Ser	Asn	His	Asp	Met	Val	Val	Ser	Ile
		275					280					285			
Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu



290	295	300
Arg Asn Lys Asp Val Lys Val Ala Phe Asn Lys Leu Trp Arg Lys Cys		
305	310	315
Asp Ser		

<210> 2068  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2068

Met Ser Ile His Ser Pro Gly Tyr Thr Val Arg Arg Ile Pro Val Asn	
1 5 10 15	
Asn Val Thr Asp Thr Thr Met Phe Ile Leu Thr Gly Phe Thr Asp Asp	
20 25 30	
Ala Asp Leu Gln Val Leu Leu Phe Leu Leu Phe Phe Val Ile Tyr Leu	
35 40 45	
Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Leu Leu Val Ile Gly Asp	
50 55 60	
Ser Arg Leu His Asn Pro Met Tyr Tyr Phe Leu Ser Val Leu Ser Phe	
65 70 75 80	
Leu Asp Ala Cys Tyr Ser Thr Val Val Thr Pro Lys Met Leu Val Asn	
85 90 95	
Phe Ile Ser Asn Asp Lys Ser Ile Ser Tyr Pro Gly Cys Val Thr Glu	
100 105 110	
Met Phe Leu Phe Val Thr Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala	
115 120 125	
Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Tyr Asn Pro Leu Leu Tyr	
130 135 140	
Ala Val Lys Met Ser Pro Arg Val Tyr Ile Pro Leu Ile Ile Ala Cys	
145 150 155 160	
Tyr Ser Gly Gly Ile Met His Ala Thr Ile His Thr Val Ala Thr Phe	
165 170 175	
Ser Leu Ser Phe Cys Ala Ser Asn Glu Ile Arg His Val Phe Cys Asp	
180 185 190	
Ile Pro Pro Leu Leu Ala Ile Ser Cys Ser Asn Thr Asn Ile Asn Gln	
195 200 205	
Leu Leu Leu Phe Tyr Cys Val Gly Ser Ile Glu Ile Ile Thr Ile Leu	
210 215 220	
Ile Val Leu Val Ser Tyr Ser Phe Ile Leu Phe Ala Ile Leu Lys Met	
225 230 235 240	
Asn Ser Ala Glu Gly Arg Arg Lys Ile Phe Ser Thr Cys Gly Ser His	
245 250 255	
Leu Thr Gly Val Ser Ile Tyr His Gly Thr Ile Leu Phe Met Tyr Val	
260 265 270	
Arg Pro Ser Ser Asn Tyr Ala Leu Glu His Asp Met Ile Val Ser Thr	
275 280 285	
Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu	
290 295 300	
Arg Asn Lys Asp Val Lys Glu Ala Met Lys Lys Ile Phe Glu Arg Asn	
305 310 315 320	
Phe Phe Met Asn Lys Val His Phe Lys Leu	
325 330	

<210> 2069  
 <211> 330

<212> PRT

<213> Mus musculus

<400> 2069

```
Met Ala Phe Leu Glu Asp Gly Asn His Thr Ile Val Thr Glu Phe Ile
 1      5      10      15
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Arg Asp Ile Leu Phe Thr
 20      25      30
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr
 35      40      45
Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe
 50      55      60
Phe Leu Ser His Leu Ala Ser Val Asp Ile Gly Ile Ser Ser Ser Val
 65      70      75      80
Thr Pro Asn Met Leu Ala Asn Phe Leu Val Lys Pro Asn Thr Ile Ser
 85      90      95
Tyr Ile Gly Cys Ser Ile Gln Phe Thr Ser Ala Val Phe Leu Ala Thr
 100     105     110
Val Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala
 115     120     125
Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Arg Glu Ala Cys
 130     135     140
Ile Gln Leu Val Val Gly Ser Tyr Ile Gln Gly Leu Leu Asn Ala Ser
 145     150     155     160
Phe Phe Thr Leu Ser Phe Phe Ser Leu Ile Phe Cys Gly Pro Asn Arg
 165     170     175     180
Ile Asn His Phe Tyr Cys Asp Leu Ala Pro Leu Val Glu Leu Ser Cys
 180     185     190
Ser Asp Val Thr Leu Ala Val Val Ile Thr Ser Ile Ser Ala Gly Phe
 195     200     205
Ile Thr Leu Thr Thr Val Phe Val Ile Ala Ile Ser Tyr Ser Cys Ile
 210     215     220
Phe Ile Thr Ile Met Lys Met His Ser Thr Glu Ser Arg Tyr Lys Ala
 225     230     235     240
Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly
 245     250     255
Thr Thr Met Phe Ile Tyr Val Met Pro Lys Ser Ser Tyr Ser Thr Asp
 260     265     270
Gln Asn Lys Val Leu Ser Val Phe Tyr Met Val Val Ile Pro Met Leu
 275     280     285
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Asn Glu Ile Lys Gly Ala Leu
 290     295     300
Lys Arg Tyr Leu Gly Lys Lys Ile Phe Ser Tyr Gly Asn Leu Phe Cys
 305     310     315     320
Lys Thr His Tyr Asn Asp Thr His Gln Val
 325     330
```

<210> 2070

<211> 326

<212> PRT

<213> Mus musculus

<400> 2070

```
Met Glu Arg Leu Asn His Ser Arg Val Pro Glu Phe Val Leu Leu Gly
 1      5      10      15
Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Phe Val Ala Phe Ser
 20      25      30
Ile Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Phe Thr
```



Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
	115						120					125			
Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Val	Cys	Ile	Leu	Phe	Ser	Val	Ala
	130					135					140				
Ser	Trp	Val	Val	Gly	Phe	Met	His	Ser	Leu	Val	Gln	Leu	Ala	Phe	Val
145					150					155					160
Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Ser	Phe	Tyr	Cys
				165					170					175	
Asp	Phe	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Lys	Leu
			180					185					190		
Glu	Leu	Leu	Val	Ser	Ile	Asn	Ser	Gly	Phe	Met	Ser	Val	Gly	Ser	Phe
	195						200					205			
Phe	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Ile	Phe	Thr	Val	Gln	Lys
	210					215					220				
His	Ser	Ser	Ser	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His
225					230					235					240
Val	Thr	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Val	Met	Phe	Phe	Tyr	Thr
				245					250					255	
Trp	Pro	Ser	Ser	Tyr	Thr	His	Leu	Asp	Lys	Phe	Leu	Ala	Ile	Phe	Asp
			260					265					270		
Ala	Ile	Val	Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn
	275						280					285			
Gln	Glu	Met	Lys	Ile	Ala	Met	Met	Arg	Val	Phe	Ser	Lys	Leu	Met	Gly
	290					295					300				
Cys	Arg	Gln	Ile	Phe	Lys	His	Leu	Asn	Phe	Glu	Gln	Thr			
305					310					315					

<210> 2072

<211> 302

<212> PRT

<213> Mus musculus

<400> 2072

Met	Asp	His	Leu	Pro	Val	Phe	Ile	Leu	Thr	Gly	Ile	Pro	Gly	Met	Pro
1				5					10					15	
Asp	Lys	Ser	Leu	Trp	Met	Val	Phe	Pro	Leu	Gly	Phe	Leu	Tyr	Thr	Leu
			20					25					30		
Thr	Leu	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Ala	Val	Val	Glu	Val	Glu	Gln
		35					40					45			
Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Cys	Met	Leu	Ala	Leu	Ile
	50					55					60				
Asp	Ile	Ser	Leu	Ser	Met	Ser	Thr	Leu	Pro	Ser	Met	Pro	Pro	Glu	Ile
65					70					75				80	
Pro	Phe	Glu	Ala	Cys	Val	Ala	Gln	Met	Phe	Phe	Ile	His	Val	Phe	Gly
			85						90					95	
Leu	Val	Asp	Ser	Gly	Val	Leu	Leu	Ser	Ile	Ile	Ala	Phe	Asp	Arg	Phe
			100					105					110		
Val	Ala	Ile	Gln	Asn	Pro	Leu	His	Tyr	Ala	Phe	Ile	Leu	Thr	His	Gly
		115					120					125			
Val	Ile	Gly	Lys	Ile	Gly	Leu	Val	Val	Leu	Asp	Arg	Ala	Val	Cys	Val
	130					135					140				
Val	Phe	Pro	Val	Pro	Phe	Leu	Ile	Lys	Arg	Leu	Arg	Phe	Cys	His	Pro
145					150					155					160
Asn	Ile	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Met	Met	Arg	Leu
			165						170					175	
Ala	Cys	Ala	Ser	Thr	Arg	Val	Asn	Ser	Leu	Tyr	Gly	Leu	Ile	Ile	Val
			180					185					190		
Ile	Leu	Ile	Leu	Gly	Leu	Asp	Ala	Leu	Ile	Ile	Leu	Phe	Ser	Tyr	Ile

195	200	205
Leu Ile Leu Lys Thr Val	Leu Gly Ile Ser Ser Arg	Ala Glu Arg Leu
210	215	220
Lys Ala Leu Asn Thr Cys	Leu Ser His Ile Cys Thr	Val Leu Leu Phe
225	230	235
Tyr Ile Pro Phe Ile Gly	Ala Thr Met Ile His Arg	Phe Gly Lys His
245	250	255
Leu Ser Pro Ile Val His Met	Pro Met Ala Asn Ile Tyr	Leu Leu Leu
260	265	270
Pro Thr Leu Leu Asn Pro Ile	Val Tyr Ser Val Lys Asn	Lys Gln Ile
275	280	285
Arg Gly Val Met Lys Met	Phe Gln Gly Arg Lys Ser	Arg Ala
290	295	300

<210> 2073

<211> 314

<212> PRT

<213> Mus musculus

<400> 2073

Met Gly Thr Val Asn His Thr Asp Ile Ser His Thr Val Phe His Leu	1	5	10	15
Leu Gly Ile Pro Gly Leu Glu Asp Gln His Met Trp Ile Ser Ile Pro	20	25	30	
Phe Phe Ile Ser Tyr Ile Thr Ala Leu Leu Gly Asn Ser Leu Leu Ile	35	40	45	
Phe Ile Ile Leu Thr Arg Pro Ser Leu His Glu Pro Met Tyr Leu Phe	50	55	60	
Leu Cys Met Leu Ala Gly Ala Asp Ile Val Leu Ser Thr Ser Thr Val	65	70	75	80
Pro Gln Ala Leu Ser Ile Phe Trp Phe His Ala Gly Glu Ile Ser Leu	85	90	95	
Asp Arg Cys Ile Thr Gln Leu Phe Phe Ile His Ser Thr Phe Ile Ser	100	105	110	
Glu Ser Gly Ile Leu Leu Val Met Ala Phe Asp Arg Tyr Ile Ala Ile	115	120	125	
Cys Tyr Pro Leu Arg Tyr Ile Thr Val Leu Thr Lys Ser Leu Ile Gly	130	135	140	
Lys Ile Gly Val Gly Ile Phe Leu Arg Ser Tyr Gly Thr Ile Phe Pro	145	150	155	160
Ile Ile Phe Leu Leu Lys Arg Leu Thr Phe Cys Arg Thr Asn Ile Leu	165	170	175	
Pro His Thr Ala Cys Glu His Ala Gly Leu Ser Lys Tyr Ala Cys Asn	180	185	190	
Asp Leu Gln Val His Ile Trp Tyr Gly Phe Phe Val Leu Met Ser Thr	195	200	205	
Val Asn Leu Asp Val Val Leu Ile Phe Val Ser Tyr Val Leu Ile Leu	210	215	220	
Arg Ala Val Phe His Met Pro Ser Gln Asp Ala Arg His Lys Ala Leu	225	230	235	240
Asn Thr Cys Gly Ser His Val Cys Val Ile Ile Leu Phe Tyr Gly Pro	245	250	255	
Gly Ile Phe Ser Thr Leu Asn His Gln Phe Gly Tyr Lys Ile Ser Thr	260	265	270	
Gly Val His Val Leu Leu Ala Asn Val Cys Ile Leu Ala Pro Pro Met	275	280	285	
Leu Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp Gln	290	295	300	

Val Thr His Val Leu Phe Leu Lys Val Ile  
 305 310

<210> 2074  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2074  
 Met Arg Gly Glu Asn Ile Thr Lys Val Ser Thr Phe Ile Leu Leu Gly  
 1 5 10 15  
 Phe Pro Thr Ala Pro Glu Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Leu Ala Tyr Leu Phe Val Leu Val Glu Asn Leu Thr Ile Ile Leu Thr  
 35 40 45  
 Val Trp Ser Ser Ala Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Gly  
 50 55 60  
 Ser Leu Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Ile Pro Lys  
 65 70 75 80  
 Met Leu Asp Gly Phe Leu Leu Gln Arg Lys Arg Ile Ser Phe Thr Gly  
 85 90 95  
 Cys Met Thr Gln Leu Tyr Phe Phe Ile Ser Leu Val Cys Thr Glu Cys  
 100 105 110  
 Val Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Arg Tyr Gln Val Ile Met Thr Thr Gly Leu Cys Val Gln Leu  
 130 135 140  
 Val Ala Phe Ser Phe Ala Ser Ala Phe Thr Val Ser Val Ile Lys Val  
 145 150 155 160  
 Tyr Phe Ile Ser Ser Ala Thr Phe Cys Gly Ser Asn Val Leu Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe  
 180 185 190  
 Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val  
 195 200 205  
 Phe Pro Leu Leu Ala Thr Ile Leu Ser Tyr Gly Tyr Ile Thr Leu Ala  
 210 215 220  
 Val Leu Arg Ile Pro Ser Ala Thr Gly Arg Trp Arg Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Val Val Thr Phe Phe Tyr Val Ala Met Leu  
 245 250 255  
 Phe Ile Tyr Val Arg Pro Gln Ala Ile Asp Thr Arg Ser Ser Asn Lys  
 260 265 270  
 Leu Ile Ser Ala Val Tyr Thr Val Leu Thr Pro Ile Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Cys Leu Arg Asn Lys Glu Phe Lys Asp Ala Val Lys Arg Thr  
 290 295 300  
 Leu Gly Leu Gly His Thr Leu  
 305 310

<210> 2075  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2075  
 Met Glu Glu Gly Asn Gln Thr Gly Met Val Leu Phe His Phe Arg Pro









<210> 2079  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2079  
 Ile Lys Asn Gln Thr Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr Asp  
 1 5 10 15  
 Ala Pro Glu Leu Gln Val Cys Val Phe Leu Phe Leu Leu Leu Thr Tyr  
 20 25 30  
 Ile Leu Ser Val Leu Gly Asn Leu Thr Ile Ile Val Leu Thr Leu Leu  
 35 40 45  
 Asp Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe Ser  
 50 55 60  
 Phe Leu Glu Ile Ser Phe Thr Ser Thr Phe Thr Pro Arg Val Leu Phe  
 65 70 75 80  
 Ser Ile Ser Thr Gly Ile Lys Thr Ile Ser Phe Ala Gly Cys Phe Thr  
 85 90 95  
 Gln Tyr Phe Phe Ala Ile Leu Phe Gly Ala Thr Glu Phe Tyr Leu Leu  
 100 105 110  
 Thr Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His  
 115 120 125  
 Tyr Thr Thr Ile Met Ser Asn Arg Val Cys Thr Leu Leu Val Leu Cys  
 130 135 140  
 Ser Trp Met Ser Gly Phe Leu Ile Ile Leu Phe Pro Ile Ile Leu Thr  
 145 150 155 160  
 Ser Gln Leu Asp Phe Cys Ala Ser Asn Val Leu Asn His Tyr Tyr Cys  
 165 170 175  
 Asp Tyr Gly Pro Leu Ile Glu Ile Ala Cys Ser Asp Thr Arg Leu Leu  
 180 185 190  
 Glu Leu Phe Asp Phe Val Leu Ala Val Val Thr Leu Ile Val Thr Leu  
 195 200 205  
 Val Leu Val Ile Phe Ser Tyr Thr Arg Ile Ile Arg Thr Ile Leu Lys  
 210 215 220  
 Ile Pro Ser Ala Gln Gln Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Met Val Val Ile Ser Leu Ser Tyr Gly Ser Cys Ile Phe Met Tyr  
 245 250 255  
 Ile Lys Pro Ser Ala Thr Glu Gly Val Ala Phe Asn Lys Gly Val Ala  
 260 265 270  
 Val Leu Asn Asn Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Gln Val Lys Gln Ser Phe Lys Asp Ile Thr Arg Lys  
 290 295 300  
 Ile Val Asn Leu Gln  
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<210> 2080  
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 <213> Mus musculus

<400> 2080  
 Glu Thr Ile Ala Asn Ser Thr Leu Val Thr Glu Phe Phe Leu Glu Val  
 1 5 10 15  
 Phe Ala Glu Ile Trp Glu Leu Arg Ile Leu Ile Thr Val Leu Phe Leu



Glu	Cys	Val	Leu	Leu	Ser	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile		
		115					120					125					
Cys	Asn	Pro	Leu	Arg	Tyr	Pro	Val	Val	Met	Asn	Lys	Ala	Ala	Tyr	Val		
	130					135					140						
Pro	Met	Ala	Val	Ser	Ser	Trp	Ser	Gly	Gly	Ile	Ala	Val	Ser	Val	Val		
145					150					155					160		
Gln	Thr	Ser	Leu	Ala	Met	Lys	Leu	Thr	Phe	Cys	Gly	Asp	Asn	Val	Ile		
			165						170					175			
Asn	His	Phe	Thr	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala		
			180					185					190				
Asp	Ile	Ser	Ile	Asn	Val	Ile	Ser	Met	Gly	Val	Thr	Asn	Ile	Ile	Phe		
	195						200					205					
Leu	Gly	Val	Pro	Val	Leu	Phe	Ile	Ser	Phe	Ser	Tyr	Val	Phe	Ile	Leu		
	210					215					220						
Val	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe		
225					230					235					240		
Ser	Thr	Cys	Ser	Ala	His	Leu	Thr	Val	Val	Leu	Val	Phe	Tyr	Gly	Thr		
				245					250					255			
Ile	Leu	Phe	Met	Tyr	Gly	Lys	Pro	Lys	Ser	Lys	Asp	Pro	Leu	Gly	Ala		
		260					265						270				
Asp	Lys	Gln	Asp	Leu	Ala	Asp	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Leu		
	275						280					285					
Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val		
	290					295					300						
Arg	Ala	Ala	Val	Thr	Asn	Leu	Val	Val	Leu	Lys	Lys	Ser	Phe	Thr			
305					310					315							

<210> 2082

<211> 314

<212> PRT

<213> Mus musculus

<400> 2082

Met	Asn	His	Glu	Glu	Leu	Glu	Ser	Ile	Asn	Asn	Val	Ser	Thr	Val	Ile		
1				5					10					15			
Gln	Phe	Val	Leu	Ile	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Phe		
		20					25						30				
Leu	Phe	Ala	Val	Phe	Ser	Val	Val	Tyr	Ile	Ile	Ile	Leu	Ile	Gly	Asn		
	35						40					45					
Phe	Leu	Ile	Ile	Ile	Ile	Ile	Ser	Thr	Asp	Gln	Ala	Leu	Gln	Lys	Pro		
	50					55				60							
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val		
65				70					75				80				
Ser	Val	Thr	Val	Pro	Arg	Ile	Leu	Phe	Asn	Ile	Gly	Thr	Gln	Asn	Arg		
			85						90				95				
Ser	Ile	Ser	Leu	Met	Ser	Cys	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Val		
		100						105					110				
Phe	Gly	Thr	Thr	Glu	Cys	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg			
	115						120					125					
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro		
	130					135					140						
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Val	Ser	Trp	Leu	Gly	Gly	Ile	Pro		
145					150					155					160		
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Met	Asn	Phe	Cys	Asn		
			165						170					175			
Ser	Tyr	Lys	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Thr		
		180						185					190				
Leu	Ala	Cys	Gly	Asn	Thr	Ser	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Val		

		195					200				205								
Val	Met	Val	Val	Ala	Ala	Phe	Pro	Phe	Ile	Leu	Val	Leu	Thr	Ser	Tyr				
	210					215					220								
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg				
225					230					235					240				
Gly	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Leu	Leu				
				245					250					255					
Phe	Tyr	Gly	Ser	Ala	Thr	Val	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Met	His				
			260					265					270						
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Thr				
		275					280					285							
Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile				
	290					295					300								
Ala	Ala	Leu	Arg	Lys	Leu	Ile	Leu	Lys	Lys										
305					310														

<210> 2083  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2083

Gln	Ala	Asn	His	Ser	Ser	Ala	Glu	Arg	Phe	Leu	Leu	Leu	Gly	Phe	Ser				
1				5					10					15					
Asp	Trp	Pro	Ser	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Val	Leu	Leu	Cys				
			20					25					30						
Tyr	Leu	Leu	Thr	Leu	Thr	Gly	Asn	Ala	Ala	Leu	Val	Leu	Leu	Ala	Ile				
		35				40						45							
Arg	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys	His	Leu				
	50					55					60								
Ala	Leu	Val	Asp	Val	Gly	Phe	Thr	Thr	Ser	Val	Val	Pro	Pro	Leu	Leu				
65					70				75					80					
Ala	Ser	Leu	Arg	Gly	Ser	Met	Leu	Gln	Leu	Pro	Arg	Ala	Gly	Cys	Met				
				85				90					95						
Ala	Gln	Leu	Cys	Ser	Ser	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Cys	Val	Leu				
			100					105					110						
Leu	Ala	Val	Met	Ala	Leu	Asp	Arg	Ala	Ala	Ala	Val	Cys	Asn	Pro	Leu				
		115					120					125							
Arg	Tyr	Thr	Ser	Leu	Ala	Ser	Pro	Leu	Leu	Cys	Arg	Thr	Leu	Ala	Arg				
		130				135					140								
Ile	Ser	Trp	Leu	Gly	Gly	Leu	Ala	Asn	Ser	Ala	Ala	Gln	Thr	Ala	Leu				
145				150					155					160					
Leu	Ala	Ala	Arg	Pro	Leu	Cys	Ala	Pro	Arg	Cys	Leu	Asp	His	Phe	Ile				
				165					170				175						
Cys	Glu	Leu	Pro	Ala	Leu	Leu	Gln	Leu	Ala	Cys	Arg	Gly	Gly	Arg	Ser				
			180					185					190						
Ala	Thr	Glu	Arg	Gln	Met	Phe	Ala	Ala	Arg	Val	Val	Ile	Leu	Leu	Val				
		195					200					205							
Pro	Ser	Ala	Val	Ile	Leu	Ala	Ser	Tyr	Ile	Ala	Val	Gly	Arg	Ala	Val				
		210				215					220								
Trp	Gly	Met	His	Ser	Ser	Ser	Gly	Trp	Arg	Lys	Ala	Ala	Ser	Thr	Cys				
225					230				235					240					
Gly	Ser	His	Leu	Thr	Ala	Val	Cys	Leu	Phe	Tyr	Gly	Ser	Ala	Thr	Tyr				
				245					250					255					
Thr	Tyr	Leu	Gln	Pro	Thr	His	Ser	Tyr	Asn	Gln	Gly	Arg	Gly	Lys	Phe				
			260					265					270						
Val	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu	Ile				
		275					280					285							

Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Ala	Leu	Arg	Leu	Leu
	290					295					300				
Arg	Ser	Leu	Gly	Arg	Pro										
305					310										

<210> 2084  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2084

Met	Ser	Asn	Gln	Thr	Ser	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val	Thr
1				5					10					15	
Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Val	Phe	Phe	Thr	Ile
			20					25					30		
Tyr	Phe	Val	Asn	Ile	Thr	Gly	Asn	Gly	Ala	Ile	Leu	Met	Ile	Val	Ile
		35					40					45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Leu	Pro	Lys	Met	Leu
65					70				75						80
Gln	Asn	Leu	Leu	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys	Ile
				85					90					95	
Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Ser	Thr	Glu	Ala	Met	Leu
			100					105					110		
Leu	Pro	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			
His	Tyr	Ser	Val	Ile	Met	Asn	His	Gln	Leu	Cys	Ile	His	Met	Thr	Val
	130					135					140				
Thr	Ile	Trp	Thr	Leu	Gly	Phe	Phe	His	Ala	Leu	Leu	His	Ser	Val	Met
145					150					155					160
Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro	Asn	His	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Lys	Pro	Leu	Leu	Asp	Leu	Ala	Cys	Gly	Asn	Thr	Glu	Leu
			180					185					190		
Asn	Leu	Trp	Leu	Leu	Asn	Thr	Val	Thr	Gly	Thr	Ile	Ala	Leu	Thr	Pro
		195					200					205			
Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Ile	Thr	Tyr	Leu	Phe
	210					215						220			
Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Phe	Met	Val	Val	Ile	Leu	Leu	Tyr	Val	Pro	Val	Leu	Phe
				245					250					255	
Thr	Tyr	Ile	Arg	Pro	Ala	Ser	Gly	Ser	Ser	Leu	Asp	Gln	Asp	Arg	Ile
			260					265					270		
Ile	Ala	Ile	Met	Tyr	Ser	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu	Ile
		275						280				285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Ser	Ala	Leu	Asn	Arg	Lys	Val
	290					295					300				
Arg	Arg	Trp	Leu												
305															

<210> 2085  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2085

Leu	Ser	Val	Ile	Cys	Gln	Ile	Leu	Ala	His	Leu	Gln	Leu	Glu	Thr	His
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Ser	Met	Gln	Thr	Lys	Gly	Ser	Thr	Gly	Ser	Val	Ala	Phe	Tyr	Ile	Ile
			20					25					30		
Thr	Ile	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile	Gln	Val	Asp	Ile
		35					40					45			
Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg	His	Leu	Pro	Leu	Leu
	50					55					60				
Asp	Gly	Thr	Ser	Ile	Ser	Leu	Tyr	Thr	Ser	Val	Ile	Thr	Pro	Gln	Ile
65					70					75				80	
Met	Ala	Thr	Leu	Ala	Lys	Asn	Lys	Met	Thr	Ile	Ser	Cys	Gly	Arg	Cys
				85					90					95	
Ala	Thr	Gln	Phe	Phe	Ser	Phe	Thr	Ile	Cys	Ala	Val	Thr	Glu	Cys	Phe
			100					105						110	
Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn	Ser
		115					120					125			
Gln	Leu	Tyr	Thr	Val	Ile	Met	Ser	Pro	Lys	Lys	Cys	Trp	Ser	Leu	Val
	130					135					140				
Ala	Val	Ala	Tyr	Val	Gly	Gly	Leu	Phe	Gly	Val	Ile	Leu	Arg	Thr	Thr
145					150					155					160
Cys	Thr	Phe	Ser	Leu	Phe	Phe	Cys	Glu	Asp	Asn	Gln	Ile	Asn	Phe	Phe
				165					170					175	
Phe	Ser	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Ile
			180					185					190		
Asn	Ile	Glu	Ile	Ile	Val	Val	Cys	Phe	Gly	Asn	Phe	Val	Ile	Leu	Ala
		195					200					205			
Asn	Ala	Leu	Val	Ile	Leu	Ile	Ser	Asn	Met	Phe	Ile	Ile	Lys	Ala	Val
	210					215					220				
Ile	Lys	Leu	Lys	Ser	Ser	Gly	Ser	Arg	Gly	Lys	Thr	Phe	Ser	Thr	Cys
225				230						235					240
Thr	Ser	His	Leu	Thr	Ala	Val	Gly	Leu	Leu	Phe	Gly	Ile	Leu	Ile	Phe
				245					250					255	
Ile	Tyr	Ile	Gln	Arg	Ser	Ser	Gly	Lys	Ser	Leu	Glu	Glu	Asp	Lys	Val
			260				265						270		
Val	Ser	Val	Phe	Asn	Thr	Val	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Arg	Lys	Val	Thr
	290					295					300				
Gly	Arg	Phe	Gln	Val	Ser	Gln	Thr	Leu	Gln	Asn					
305					310					315					

<210> 2086

<211> 277

<212> PRT

<213> Mus musculus

<400> 2086

Met	Pro	Asn	Phe	Thr	Asp	Val	Thr	Glu	Phe	Leu	Leu	Val	Gly	Leu	Thr
1				5					10					15	
Arg	Arg	Gln	Glu	Leu	Arg	Val	Leu	Phe	Phe	Val	Val	Phe	Leu	Val	Val
			20					25					30		
Tyr	Met	Val	Thr	Leu	Leu	Gly	Asn	Ile	Gly	Met	Ile	Ile	Leu	Ile	Ser
		35					40					45			
Ile	Ser	Leu	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
	50					55					60				
Ser	Phe	Val	Asp	Val	Leu	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met	Leu
65					70					75				80	

Glu	Asn	Leu	Ile	Ser	Glu	Thr	Lys	Thr	Ile	Ser	Tyr	Val	Gly	Cys	Leu
			85						90					95	
Val	Gln	Cys	Tyr	Phe	Phe	Ile	Ala	Leu	Val	His	Val	Glu	Val	Tyr	Ile
			100					105					110		
Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Asn	Pro	Leu
		115					120					125			
Leu	Tyr	Ser	Ser	Lys	Met	Ser	Arg	Val	Val	Cys	Ile	Arg	Leu	Ile	Ser
	130					135					140				
Val	Pro	Tyr	Val	Tyr	Gly	Phe	Ser	Val	Ser	Leu	Ile	Cys	Thr	Leu	Trp
145					150					155					160
Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Asn	Ile	Lys	Ile	Asn	His	Phe	Tyr
			165					170						175	
Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Ile	Ala	Cys	Gly	Gly	Val	His	Ile
			180					185					190		
Lys	Glu	Tyr	Thr	Met	Ile	Val	Ile	Ala	Gly	Ile	Asn	Phe	Thr	Tyr	Ser
		195				200						205			
Leu	Ser	Val	Val	Leu	Ile	Ser	Tyr	Val	Leu	Ile	Val	Val	Ala	Val	Leu
	210					215					220				
Arg	Met	His	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Thr	Ala	Val	Ser	Met	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met
			245					250						255	
Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Gln	Gly	Lys	Met	Val
			260					265					270		
Ala	Val	Phe	Tyr	Thr											
		275													

<210> 2087

<211> 312

<212> PRT

<213> Mus musculus

<400> 2087

Ser	Trp	Glu	Asp	Gly	Asn	His	Thr	Ala	Leu	Thr	Glu	Phe	Ile	Leu	Leu
1				5				10						15	
Gly	Leu	Thr	Asp	Glu	Pro	Val	Leu	Arg	Val	Val	Leu	Phe	Thr	Ile	Ile
			20					25					30		
Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr	Ile	Leu
		35				40					45				
Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	Phe	Leu
	50					55				60					
Ser	His	Leu	Ala	Ser	Ala	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro
65					70				75						80
Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Glu	Lys	Asn	Thr	Ile	Thr	Tyr	Leu
			85					90						95	
Arg	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ser	Ala	Phe	Phe	Gly	Thr	Val	Glu
			100					105					110		
Cys	Phe	Val	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
Ser	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Ile	Gln	Val	Cys	Ile	Gln
	130					135					140				
Leu	Leu	Val	Val	Ala	Tyr	Ile	Ser	Gly	Phe	Leu	Asn	Ala	Ser	Ser	Phe
145					150					155					160
Thr	Leu	Ser	Phe	Phe	Thr	Phe	Phe	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn
			165					170						175	
His	Phe	Phe	Cys	Asp	Phe	Thr	Pro	Leu	Val	Glu	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Asp	Arg	Val	Ser	Ile	Ile	Leu	Ala	Thr	Ile	Ser	Val	Gly	Thr	Val	Ile





Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe
	290					295					300				
Leu	Lys	Val	Met	Gly	His	Ala	Arg	Val	Asp	Ser					
305					310					315					

<210> 2089

<211> 447

<212> PRT

<213> Mus musculus

<400> 2089

Met	Ser	Val	Phe	Asn	Ala	Ser	Asn	Ile	Glu	Ile	Pro	Thr	Phe	Val	Leu
1				5					10					15	
Ile	Gly	Ile	Pro	Gly	Leu	Glu	His	Val	His	Ile	Trp	Leu	Ser	Ile	Pro
			20					25					30		
Ile	Cys	Leu	Met	Tyr	Leu	Val	Ala	Ile	Met	Gly	Asn	Cys	Thr	Ile	Leu
		35					40					45			
Phe	Leu	Ile	Lys	Thr	Glu	Thr	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ala	Phe	Ser	Asp	Leu	Gly	Leu	Ser	Val	Ser	Ser	Leu
65					70					75					80
Pro	Thr	Val	Leu	Arg	Ile	Phe	Leu	Phe	Asn	Ser	Thr	Glu	Ile	Ser	Ser
				85					90					95	
Asp	Ala	Cys	Phe	Ala	Gln	Glu	Phe	Phe	Ile	His	Gly	Phe	Ser	Ala	Met
			100					105					110		
Glu	Ser	Ser	Val	Leu	Phe	Ile	Met	Ala	Ile	Asp	Arg	Phe	Ile	Ala	Val
		115					120					125			
Tyr	Asn	Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Leu	Thr	Val	Arg	Arg	Val	Phe
	130					135					140				
Lys	Thr	Gly	Leu	Ile	Phe	Ala	Thr	Phe	Cys	Ile	Ala	Val	Val	Leu	Pro
145					150					155					160
Phe	Pro	Phe	Ile	Leu	Lys	Arg	Leu	Lys	Phe	Cys	Lys	Lys	Ser	Leu	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Val	Ala	Cys	Ser
			180					185					190		
Asn	Asn	Arg	Ile	Asn	Val	Ile	Tyr	Gly	Phe	Phe	Val	Ala	Thr	Ser	Ser
	195						200					205			
Leu	Leu	Tyr	Leu	Val	Phe	Ile	Ser	Val	Ser	Tyr	Met	Leu	Ile	Leu	Lys
	210					215					220				
Ile	Val	Leu	Gly	Cys	Glu	Pro	Pro	Ser	His	Leu	Pro	Leu	Asp	Gly	
225					230				235					240	
Thr	Asp	Ser	Cys	Val	Leu	Ser	Gly	Lys	His	Asn	Leu	His	Thr	Cys	Arg
				245					250					255	
Gly	Ser	Phe	Pro	Ala	Met	Cys	Ser	Ala	Phe	Pro	Val	Met	Thr	Thr	Gly
			260					265					270		
Pro	Met	Gly	Cys	Ser	Gln	Ser	Gly	Ser	Asn	Thr	Ser	Ala	Glu	Asp	Asn
		275					280					285			
Ser	Pro	Lys	Gly	Arg	Val	Leu	Pro	Leu	Ser	Leu	Leu	Leu	Ser	Cys	Ser
	290					295					300				
Cys	Ser	Phe	Ser	Cys	Phe	Leu	Ala	Leu	Ser	Cys	Phe	Phe	Val	Leu	Val
305					310					315					320
Leu	Phe	Leu	Ser	Leu	Ala	Leu	Leu	Leu	Ser	Cys	Ser	Leu	Ala	Pro	Glu
				325					330					335	
Asp	Val	Ser	Asn	Lys	Ala	Phe	Ala	Ala	Glu	Asp	Ser	Gly	Leu	Leu	Arg
			340					345					350		
Ser	Ser	Trp	Leu	Val	Val	Asn	Ala	Gly	Lys	Met	Gly	Ile	Thr	Ser	His
		355					360					365			
Lys	Gly	Arg	Leu	Lys	Phe	Phe	Asn	Thr	Cys	Ile	Ser	His	Ile	Cys	Ala

370		375		380
Val Leu Ile Phe Tyr	Val Pro Ile Ile Thr	Leu Ala Ala Leu His Arg		
385	390	395	400	
Phe Ala Lys Asn Ile	Ser Pro Val Ile Gly	Val Ile Ile Ala Asp Ile		
	405	410	415	
Phe Leu Leu Val Pro	Pro Leu Met Asn Pro	Ile Val Tyr Ser Val Lys		
	420	425	430	
Ser Gln His Ile Arg	Asn Leu Ile Gln Thr	Lys Phe Cys Glu Lys		
435	440	445		

<210> 2090

<211> 325

<212> PRT

<213> Mus musculus

<400> 2090

Met Ala Phe Leu Pro	Ala Ser Gly Val	Ala Ala Val Asn Ser Ser Asp		
1	5	10	15	
Thr Arg Val Thr Gly	Cys Leu Leu Thr Gly	Ile Pro Gly Leu Glu His		
20	25	30		
Leu Gln Met Trp Leu	Ser Ile Pro Phe Cys	Ile Met Tyr Ile Ala Ala		
35	40	45		
Leu Val Gly Asn Ser	Val Leu Val Cys Val	Ile Leu Ser Gln Ser Ser		
50	55	60		
Leu His Glu Thr Met	Tyr Ile Phe Leu Ser	Met Leu Ala Ser Ala Asp		
65	70	75	80	
Val Leu Leu Ser Thr	Ser Thr Met Pro Lys	Thr Leu Ala Asn Phe Trp		
85	90	95		
Leu Gly Ser Ser His	Ile Ser Phe Asp Gly	Cys Leu Thr Gln Met Phe		
100	105	110		
Phe Ile His Phe Leu	Phe Val Ala Ile Cys	Ser Ala Val Leu Ala Met		
115	120	125		
Ala Phe Asp Cys Tyr	Val Ala Ile Cys Ser	Pro Leu Arg Tyr Thr Thr		
130	135	140		
Ile Leu Thr Arg Gln	Val Met Gly Lys Met	Ala Ala Ala Ile Leu Thr		
145	150	155	160	
Arg Ser Phe Ile Ile	Met Leu Pro Cys Ile	Phe Leu Leu Lys Arg Leu		
165	170	175		
His Tyr Cys Arg Ile	Asn Val Ile Glu His	Thr Phe Cys Glu His Met		
180	185	190		
Gly Ile Ala Arg Leu	Ser Cys Ser Asp Ile	Ser Ile Asn Val Trp Tyr		
195	200	205		
Gly Leu Thr Ala Ala	Leu Leu Ser Thr Gly	Leu Asp Ile Ile Leu Ile		
210	215	220		
Ala Val Ser Tyr Val	His Ile Leu Ala Val	Phe Arg Leu Ser Ser Gln		
225	230	235	240	
Glu Ala Arg Ser Lys	Ala Leu Ser Thr Cys	Gly Ser His Val Cys Val		
245	250	255		
Ile Leu Leu Phe Tyr	Ile Pro Ala Leu Phe	Ser Val Phe Ala Tyr Arg		
260	265	270		
Phe Gly Gly Lys His	Ile Pro Arg Tyr Val	His Ile Leu Leu Ala Asn		
275	280	285		
Leu Tyr Val Val Ile	Pro Pro Met Leu Asn	Pro Val Ile Tyr Gly Val		
290	295	300		
Arg Thr Lys Gln Ile	Leu Glu Gly Ala Lys	Gln Met Phe Thr Asn Ile		
305	310	315	320	
Thr Lys Glu Phe Lys				
325				

<210> 2091  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (90)...(95)  
 <223> Any amino acid

<400> 2091  
 Met Gly Thr Ala Leu His Glu Thr Asn Ser Ser Glu Val His Val Ser  
 1 5 10 15  
 Glu Phe Ile Leu Leu Gly Phe Pro Gly Ile His Glu Phe Gln Ile Trp  
 20 25 30  
 Leu Ser Leu Pro Met Ala Leu Leu Tyr Ile Val Ala Leu Gly Ala Asn  
 35 40 45  
 Leu Leu Ile Leu Ile Thr Ile Tyr Leu Glu Pro Thr Leu His Gln Pro  
 50 55 60  
 Met Tyr Gln Phe Leu Gly Ile Leu Ala Ala Val Asp Ile Gly Leu Ala  
 65 70 75 80  
 Thr Thr Ser Met Pro Lys Ile Arg Pro Xaa Xaa Xaa Xaa Xaa Xaa Tyr  
 85 90 95  
 Ala Ile His Thr Phe Met Cys Met Glu Ser Gly Val Phe Leu Cys Met  
 100 105 110  
 Ala Ile Asp Arg Tyr Val Ala Ile Cys Tyr Pro Leu Gln Tyr Pro Ser  
 115 120 125  
 Ile Val Thr Glu Ala Phe Val Ile Lys Ala Thr Leu Ser Met Leu Leu  
 130 135 140  
 Arg Asn Gly Leu Leu Thr Ile Pro Val Pro Val Leu Ala Ala Gln Arg  
 145 150 155 160  
 Gln Tyr Cys Ser Arg Asn Glu Ile Asp His Cys Leu Cys Ser Asn Leu  
 165 170 175  
 Gly Val Ile Ser Leu Ala Cys Asp Asp Ile Thr Val Asn Arg Phe Tyr  
 180 185 190  
 Gln Leu Ala Leu Ala Trp Leu Val Val Gly Ser Asp Met Ile Leu Val  
 195 200 205  
 Tyr Ala Ser Tyr Ala Leu Ile Arg Ser Val Leu Arg Leu Asn Ser  
 210 215 220  
 Thr Glu Ala Ala Ser Lys Ala Leu Ser Thr Cys Ser Ser His Leu Ile  
 225 230 235 240  
 Leu Ile Met Phe Tyr Tyr Thr Ala Ile Val Ile Val Ser Val Thr His  
 245 250 255  
 Leu Ala Gly Arg Arg Val Pro Leu Ile Pro Val Leu Leu Asn Val Met  
 260 265 270  
 His Ile Val Ile Pro Pro Ser Leu Asn Pro Val Val Tyr Ala Leu Arg  
 275 280 285  
 Thr Gln Glu Leu Lys Val Gly Phe Arg Lys Val Phe Ser Leu Ser Glu  
 290 295 300  
 Phe Val Ser Arg Lys  
 305

<210> 2092  
 <211> 300  
 <212> PRT  
 <213> Mus musculus

<400> 2092

Met	Ile	Lys	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Ala
1			5						10					15	
Leu	Pro	Ile	Pro	Pro	Gln	His	Gln	Gln	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Lys	Phe	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser	Thr
	50					55					60				
Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu
65					70					75					80
Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Thr	Tyr	Ala	Gly	Cys
				85					90					95	
Leu	Thr	Gln	Met	Tyr	Phe	Phe	Met	Val	Phe	Ala	Asn	Met	Glu	Asn	Val
			100					105					110		
Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro
		115					120					125			
Ile	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	His	Cys	Val	Ser	Leu	Val
	130					135					140				
Val	Leu	Ser	Trp	Val	Phe	Thr	Ile	Leu	Tyr	Ser	Met	Leu	His	Thr	Leu
145					150					155					160
Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His	Phe
				165					170					175	
Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	Tyr
			180					185					190		
Ile	Asn	Glu	Val	Met	Ile	Phe	Ile	Phe	Glu	Gly	Leu	Asp	Thr	Val	Ile
		195					200					205			
Pro	Phe	Leu	Leu	Ile	Phe	Val	Ser	Cys	Val	Gln	Ile	Val	Cys	Ser	Ile
	210					215					220				
Leu	Lys	Phe	Ser	Thr	Thr	Trp	Gly	Ile	Ala	Lys	Ile	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly
				245					250					255	
Leu	Tyr	Phe	Cys	Pro	Thr	Asn	Asn	Ser	Thr	Val	Lys	Asp	Thr	Ala	Met
			260					265					270		
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Ser	Leu	Met	Asn	Lys	Asp	Met	Lys	Glu	Ala	Leu	Ile				
	290					295					300				

<210> 2093

<211> 310

<212> PRT

<213> Mus musculus

<400> 2093

Met	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly	Leu	Pro
1				5					10					15	
Ile	Pro	Leu	Glu	Tyr	Lys	His	Leu	Phe	Phe	Ala	Leu	Phe	Leu	Thr	Met
			20					25					30		
Tyr	Leu	Asn	Ile	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu	Ile	Leu
		35				40						45			
Leu	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu	Leu
65					70					75					80
Gln	Asn	Met	Gln	Ser	Gln	Asp	Pro	Ser	Ile	Pro	Tyr	Ala	Ser	Cys	Leu

				85				90					95			
Thr	Gln	Met	Tyr	Phe	Phe	Met	Ala	Phe	Gly	Asn	Met	Glu	Ile	Tyr	Leu	
			100					105					110			
Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	
		115					120					125				
His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu	Val	Val	
		130				135					140					
Leu	Ser	Trp	Val	Phe	Thr	Ile	Leu	Tyr	Ser	Met	Leu	His	Thr	Leu	Leu	
145					150					155					160	
Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His	Phe	Phe	
				165					170					175		
Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	Ser	Ile	
			180					185					190			
Asn	Glu	Leu	Met	Ile	Phe	Ile	Val	Gly	Gly	Leu	Asp	Thr	Val	Ile	Pro	
		195					200					205				
Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Val	Cys	Ser	Ile	Leu	
	210					215					220					
Lys	Phe	Ser	Ser	Thr	Arg	Gly	Ile	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	
225				230						235					240	
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Val	
				245					250					255		
Tyr	Ile	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Thr	Val	Met	
			260					265					270			
Ser	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	
		275					280					285				
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Ile	Arg	Val	Leu	Cys	
		290				295					300					
Lys	Lys	Gln	Ile	Ser	Leu											
305					310											

<210> 2094

<211> 311

<212> PRT

<213> Mus musculus

<400> 2094

Met	Pro	Gly	Lys	Asn	Gln	Thr	Ile	Ile	Ser	Glu	Phe	Leu	Leu	Leu	Gly	
1				5					10					15		
Leu	Pro	Ile	Pro	Pro	Glu	Gln	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu	
			20					25					30			
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu	
		35					40					45				
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser	
		50				55					60					
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	
65					70					75					80	
Leu	Leu	Leu	Asn	Met	Gln	Ser	Gln	Ile	Pro	Ser	Ile	Ser	Tyr	Ala	Ser	
				85					90					95		
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Ala	Leu	Glu	Asn	
			100					105					110			
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	
		115					120					125				
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Met	
		130				135					140					
Val	Val	Met	Cys	Trp	Val	Leu	Thr	Thr	Phe	Asp	Ala	Met	Leu	His	Thr	
145					150					155					160	
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His	
				165					170					175		

Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Val	Asn	Glu	Val	Val	Ile	Phe	Ile	Ile	Gly	Gly	Leu	Gly	Val	Val
		195					200					205			
Leu	Pro	Phe	Leu	Leu	Ile	Thr	Val	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	Gln	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Gly	Pro	Ser	Ala	Tyr	Tyr	Ser	Thr	Leu	Lys	Asp	Thr
		260						265					270		
Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Lys	Arg	Leu
	290				295						300				
Phe	Gln	Lys	Lys	Thr	Ile	Phe									
305					310										

<210> 2095

<211> 311

<212> PRT

<213> Mus musculus

<400> 2095

Met	Pro	Arg	Asn	Asn	Asn	Gln	Thr	Thr	Ile	Ser	Gln	Phe	Leu	Leu	Leu
1				5					10					15	
Gly	Leu	Pro	Ile	Pro	Gln	Glu	Phe	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe
			20					25					30		
Leu	Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile
		35					40					45			
Leu	Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Ser	Trp	Leu	Leu	Thr	Met	Ser	His	Ser	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Leu	Thr	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
His	Ile	Asn	Glu	Leu	Val	Ile	Leu	Ile	Ile	Gly	Gly	Leu	Val	Val	Ile
		195					200					205			
Leu	Pro	Phe	Leu	Leu	Ile	Thr	Val	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	His	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Leu	Lys	Asp	Thr





<212> PRT

<213> Mus musculus

<400> 2097

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Met Glu Ile Pro His Asn Ile Thr Glu Phe Phe Met Leu Gly Leu Ser
 1          5          10          15
Gln Arg Pro Glu Ile Gln Arg Leu Leu Phe Val Val Phe Leu Val Ile
          20          25          30
Tyr Ala Val Thr Val Cys Gly Asn Met Leu Ile Val Val Thr Val Thr
          35          40          45
Phe Ser Ser Ser Leu Ala Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
          50          55          60
Ser Phe Ile Asp Thr Cys Tyr Ser Ser Ser Leu Ala Pro Lys Leu Ile
65          70          75          80
Ala Asp Ser Leu Val Arg Asp Asp Phe Phe Ser Tyr Glu Gly Cys Met
          85          90          95
Ala Gln Leu Phe Gly Ala His Phe Leu Gly Gly Val Glu Ile Ile Leu
          100          105          110
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
          115          120          125
His Tyr Thr Thr Thr Met Thr Arg His Leu Cys Val Val Leu Val Ala
130          135          140
Val Ala Trp Leu Gly Gly Phe Leu His Ser Leu Val Gln Ile Leu Leu
145          150          155          160
Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Val
          165          170          175
Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asn Thr Tyr Val
          180          185          190
Ile Gly Leu Leu Val Val Ala Asn Ser Gly Val Ile Cys Leu Leu Asn
          195          200          205
Phe Leu Met Leu Ala Ala Ser Tyr Ile Val Ile Leu His Ser Leu Arg
          210          215          220
Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala
225          230          235          240
His Phe Thr Val Val Thr Met Phe Phe Val Pro Cys Ile Phe Ser Tyr
          245          250          255
Met Arg Pro Ser Thr Thr Leu Pro Ile Asp Lys Asn Met Ala Val Phe
          260          265          270
Tyr Gly Ile Leu Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
          275          280          285
Asn Glu Glu Val Lys Asp Ala Met Arg Lys Leu Phe Thr Arg Ser Glu
          290          295          300
Val Val Gly Ala
305
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<210> 2098

<211> 275

<212> PRT

<213> Mus musculus

<400> 2098

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Thr Val Leu Gly Asn Gly Leu Ile Val Val Thr Val Asn Ile Lys Glu
 1          5          10          15
Ser Val Phe Pro Pro Met Tyr Phe Phe Pro Pro Ile Thr Cys Pro Leu
          20          25          30
Val Glu Ile Ser Tyr Ser Ser Thr Val Val Pro Lys Phe Ile Thr Asp
          35          40          45
Leu Leu Asn Lys Ile Lys Thr Ile Ser Pro Lys Gly Cys Leu Ala Gln
```

50		55		60	
Ile Phe Phe Phe His Phe Phe Gly Val Thr Glu Ile Leu Leu Leu Thr					
65		70		75	80
Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr					
	85			90	95
Thr Thr Ile Met Ser Arg Pro Lys Cys His Arg Leu Val Ala Gly Ser					
	100		105		110
Trp Val Gly Gly Phe Phe His Ser Ile Ile Gln Ile Phe Ile Thr Leu					
	115		120		125
Pro Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe Cys Asp					
	130		135		140
Leu His Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val Val Gly					
145		150		155	160
Val Ile Met Phe Val Asn Ser Gly Leu Phe Ser Val Phe Ser Phe Leu					
	165		170		175
Phe Leu Val Ser Ser Tyr Ile Val Ile Leu Tyr Asn Leu Arg Asn His					
	180		185		190
Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ala Ser His Ile					
	195		200		205
Met Val Val Val Leu Phe Phe Gly Pro Ala Ile Phe Leu Tyr Leu Arg					
	210		215		220
Pro Ala Ser Thr Tyr Thr Glu Asp Lys Leu Val Ala Val Phe Tyr Thr					
225		230		235	240
Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Ala					
	245		250		255
Glu Val Lys Asn Ala Val Arg Lys Leu Trp Gly Lys Lys Val Ser Ser					
	260		265		270
Ser Leu Glu					
275					

<210> 2099  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2099

Met Ala Asp Ile His Asn Val Thr Glu Phe Leu Phe Leu Gly Leu Ser	
1	5
Pro Asn Gln Glu Val Gln Arg Val Cys Phe Val Leu Phe Leu Leu	
	20
Tyr Met Ala Ile Val Leu Gly Asn Leu Leu Met Val Val Thr Val Val	
	35
Ala Ser Arg Asn Leu Gly Ser Pro Met Tyr Phe Phe Leu Asp Ser Leu	
	50
Ser Phe Val Glu Ile Tyr Ser Ser Met Thr Ala Thr Lys Leu Ile Leu	
65	70
Asp Leu Leu Thr Glu Lys Lys Ser Ile Ser Val Trp Gly Cys Met Ile	
	85
Gln Leu Phe Phe Ile His Phe Val Gly Ala Ala Glu Ile Phe Leu Leu	
	100
Thr Met Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu His	
	115
Tyr Thr Ser Ile Met Asn Gln Ser Val Cys Ala Val Leu Leu Gly Thr	
	130
Ala Trp Met Gly Gly Phe Val His Cys Leu Ala Gln Ile Leu Leu Leu	
145	150
Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe Cys	
	165
	170
	175

Asp	Val	Phe	Pro	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu	Ile
			180					185					190		
Gly	Leu	Leu	Ile	Val	Ala	Asn	Gly	Gly	Thr	Leu	Ser	Val	Ile	Ser	Phe
		195					200					205			
Val	Val	Leu	Leu	Ala	Ser	Tyr	Val	Val	Ile	Phe	Phe	Tyr	Leu	Arg	Thr
	210					215					220				
Gln	Ser	Ala	Glu	Gly	Trp	Arg	Lys	Thr	Leu	Ala	Thr	Cys	Gly	Cys	His
225					230					235					240
Val	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Val	Phe	Ile	Tyr	Leu
				245					250					255	
Arg	Pro	Ser	Asp	Thr	Leu	Pro	Val	Asp	Lys	Met	Ile	Ala	Val	Phe	Tyr
			260					265					270		
Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
		275					280					285			
Ala	Glu	Val	Lys	Lys	Thr	Met	Lys	Cys	Leu	Trp	Phe	Arg	Thr	Met	Lys
	290					295					300				
Val	Asp	Glu	Lys												
305															

<210> 2100

<211> 307

<212> PRT

<213> Mus musculus

<400> 2100

Met	Asn	Tyr	Arg	Thr	Asn	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser
1				5				10					15		
Gln	Thr	Lys	Glu	Ile	Glu	Val	Ile	Cys	Phe	Val	Leu	Phe	Leu	Leu	Cys
			20					25				30			
Tyr	Ile	Ala	Ile	Leu	Phe	Gly	Asn	Leu	Leu	Ile	Met	Ile	Ser	Val	Thr
	35						40				45				
Trp	Ser	His	Leu	Ile	Asn	Gln	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Tyr	Leu
	50				55					60					
Ala	Leu	Ser	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Val	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Ile	Asn	Leu	Val	Thr	Thr	Lys	Lys	Ser	Ile	Ser	Tyr	Asn	Gly	Cys	Met
				85					90				95		
Thr	Gln	Leu	Phe	Thr	Met	His	Phe	Phe	Gly	Gly	Ile	Glu	Val	Phe	Ile
			100					105					110		
Leu	Thr	Gly	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Ile	Leu	Met	Ser	Arg	Gln	Lys	Cys	Asp	Ala	Val	Ile	Ala
	130					135					140				
Ala	Ser	Cys	Ala	Gly	Gly	Phe	Leu	His	Ser	Phe	Gly	Gln	Phe	Ile	Leu
145					150					155					160
Ala	Val	Phe	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe
				165					170					175	
Cys	Asp	Val	Tyr	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Arg	Lys
			180					185					190		
Ile	Gly	Phe	Leu	Val	Ile	Ala	Asn	Ser	Gly	Leu	Met	Gly	Leu	Val	Thr
		195					200					205			
Phe	Val	Val	Leu	Leu	Ile	Ser	Tyr	Gly	Val	Ile	Leu	Tyr	Thr	Val	Arg
	210					215					220				
Ser	Tyr	Ser	Ala	Glu	Asn	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Ala	Pro	Leu	Leu	Phe	Ile	Tyr
				245					250					255	
Ile	Arg	Pro	Ala	Thr	Thr	Leu	Pro	Glu	Asp	Lys	Val	Phe	Ala	Leu	Phe



<212> PRT

<213> Mus musculus

<400> 2102

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His Pro Ser Leu Arg Leu Phe Leu Trp Ala Val Ser Leu Ser Leu Tyr
 1          5          10          15
Thr Val Ala Leu Met Gly Asn Met Val Ile Ile Ala Leu Ile Thr Ser
 20          25          30
Ser Thr Gly Leu His Ser Pro Met Tyr Phe Phe Leu Cys Asn Leu Ala
 35          40          45
Thr Met Asp Ile Ile Cys Thr Ser Ser Val Leu Pro Lys Ala Leu Val
 50          55          60
Gly Leu Leu Tyr Glu Glu Asn Thr Ile Ser Phe Lys Gly Cys Met Ala
 65          70          75          80
Gln Leu Phe Phe Leu Leu Trp Ser Gly Ser Ser Glu Val Leu Leu Leu
 85          90          95
Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu His
100          105          110
Tyr Ser Ser Arg Met Ser Pro Gln Leu Cys Ala Ala Leu Ala Val Ala
115          120          125
Val Trp Ser Ile Cys Ala Val Asn Ala Ser Val His Thr Gly Leu Met
130          135          140
Thr Gln Leu Ser Phe Cys Gly Pro Lys Val Ile Thr His Phe Phe Cys
145          150          155          160
Glu Ile Pro Pro Leu Leu Leu Leu Ser Cys Ser Pro Thr Tyr Val Asn
165          170          175
Ser Val Met Thr Leu Val Ala Asp Ala Phe Tyr Gly Gly Ile Asn Phe
180          185          190
Leu Leu Thr Leu Leu Ser Tyr Gly Cys Ile Ile Ala Ser Ile Leu His
195          200          205
Met Arg Ser Ala Glu Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
210          215          220
His Leu Ile Val Val Ser Val Tyr Tyr Ser Ser Leu Phe Cys Ala Tyr
225          230          235          240
Ile Ser Pro Ala Ser Ser Tyr Ser Pro Glu Arg Ser Lys Phe
245          250
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<210> 2103

<211> 208

<212> PRT

<213> Mus musculus

<400> 2103

```
Ser Ser Phe Phe Leu Trp Ser Gly Ser Ser Glu Leu Leu Leu Leu Thr
 1          5          10          15
Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu His Tyr
 20          25          30
Ser Ser Arg Met Ser Pro Gln Leu Cys Ala Ala Leu Val Val Ala Val
 35          40          45
Trp Ser Ile Cys Ala Val Asn Ala Ser Val His Thr Gly Leu Met Thr
 50          55          60
Gln Leu Ser Phe Cys Gly Pro Lys Val Ile Thr His Phe Phe Cys Glu
 65          70          75          80
Ile Pro Pro Leu Leu Leu Ser Cys Ser Ser Thr Tyr Val Asn Ser
 85          90          95
Val Met Thr Leu Val Ala Asp Ala Phe Tyr Gly Gly Ile Asn Phe Leu
100          105          110
Leu Thr Leu Leu Ser Tyr Gly Cys Ile Ile Ala Ser Ile Leu His Met
```



<210> 2105  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2105

Met	Ser	Asn	Tyr	Thr	Gly	Gln	Ser	Tyr	Phe	Thr	Leu	Val	Gly	Leu	Phe
1				5					10					15	
Ser	Gln	Ser	Lys	His	Pro	Ala	Leu	Leu	Ala	Val	Val	Ile	Phe	Val	Val
			20					25					30		
Phe	Leu	Met	Ser	Leu	Ser	Gly	Asn	Ala	Leu	Leu	Ile	Leu	Leu	Ile	Leu
		35					40					45			
Ser	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Met	Asp	Met	Met	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met	Leu
65					70					75					80
Met	Asp	Arg	Ile	Leu	Gly	Asn	His	Lys	Val	Ser	Gln	Ala	Ala	Ala	Cys
			85						90					95	
Gly	Met	Gln	Met	Phe	Leu	Tyr	Met	Ser	Leu	Gly	Gly	Ser	Glu	Phe	Leu
			100					105					110		
Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	His	Arg	Val	Cys	Leu	Leu	Leu	Ile
	130					135					140				
Ser	Thr	Cys	Trp	Ile	Leu	Gly	Ser	Leu	Asp	Gly	Phe	Met	Phe	Thr	Pro
145					150					155					160
Val	Thr	Met	Thr	Phe	Pro	Phe	Cys	Gly	Ser	Arg	Glu	Ile	His	His	Phe
			165						170					175	
Phe	Cys	Glu	Ala	Pro	Ala	Val	Thr	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Trp
		180						185					190		
Leu	Tyr	Glu	Thr	Leu	Met	Tyr	Val	Cys	Cys	Val	Leu	Met	Ile	Leu	Ile
		195					200					205			
Pro	Val	Thr	Val	Ile	Ser	Gly	Ser	Tyr	Thr	Ser	Ile	Leu	Leu	Thr	Val
	210					215					220				
Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ala	Thr	Cys
225				230						235					240
Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ala	Ile	Tyr
			245						250					255	
Thr	Tyr	Ile	Phe	Pro	Val	Ser	Leu	His	Ser	Pro	Glu	Lys	Asp	Met	Val
		260					265						270		
Val	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asn	Val	Thr	Glu	Gly	Tyr	Glu	Glu	Thr	Val
	290				295						300				
Gly	Tyr	Lys	Thr	Pro	Leu	Ser	Gln	Lys	Gln						
305					310										

<210> 2106  
 <211> 208  
 <212> PRT  
 <213> Mus musculus

<400> 2106

Met	Glu	Ser	Gly	Asn	Ser	Thr	Arg	Arg	Ile	Pro	Ser	Phe	Phe	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Glu	Asn	Pro	His	Leu	Gln	Phe	Leu	Ile	Phe	Val	Leu	Phe





<210> 2108  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2108  
 Met Met Asn Phe Ser Ile Val Ser Glu Phe Met Ile Leu Gly Leu Thr  
 1 5 10 15  
 Gln Lys Ser Glu Leu Gln Gly Ile Leu Phe Ile Val Phe Leu Phe Ile  
 20 25 30  
 Tyr Leu Val Ala Leu Leu Gly Asn Met Leu Ile Val Val Ala Ile Ile  
 35 40 45  
 Tyr Asn Thr Thr Leu His Thr Pro Met Tyr Ile Leu Leu Ala Leu  
 50 55 60  
 Ala Val Val Asp Ile Ile Cys Thr Thr Ser Ile Ile Pro Lys Met Leu  
 65 70 75 80  
 Gly Thr Met Leu Thr Ser Lys Asn Ser Ile Ser Tyr Gly Gly Cys Met  
 85 90 95  
 Ser Gln Leu Phe Phe Phe Thr Trp Ser Leu Gly Ala Glu Met Val Leu  
 100 105 110  
 Phe Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu  
 115 120 125  
 Arg Tyr Ser Thr Ile Met Asn His Tyr Thr Cys Val Gly Leu Leu Ser  
 130 135 140  
 Ile Val Met Ala Ile Ala Val Thr Asn Ser Trp Val His Thr Gly Leu  
 145 150 155 160  
 Ile Leu Arg Leu Thr Phe Cys Gly Pro Asn Ile Ile Asp His Phe Phe  
 165 170 175  
 Cys Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Pro Val Arg Val  
 180 185 190  
 Asn Glu Val Met Val Tyr Val Ala Asp Ile Thr Leu Ala Val Gly Asp  
 195 200 205  
 Phe Thr Leu Thr Cys Ile Ser Tyr Gly Phe Ile Ile Ala Ala Ile Leu  
 210 215 220  
 Arg Ile Arg Thr Thr Glu Gly Lys Lys Lys Ala Phe Ser Thr Cys Ser  
 225 230 235 240  
 Ser His Leu Met Val Val Ser Leu Tyr Tyr Ser Pro Val Ile Tyr Thr  
 245 250 255  
 Tyr Ile Arg Pro Ala Ser Ser Tyr Thr Phe Asp Lys Asp Lys Val Val  
 260 265 270  
 Ala Ala Leu Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Ile Val Tyr  
 275 280 285  
 Ser Phe Arg Asn Lys Glu Met Gln Ser Gly Ile Lys Lys Val Phe Ala  
 290 295 300  
 Phe Leu Lys Gly  
 305

<210> 2109  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2109  
 Met Asp Val Ser Asn Gln Thr Thr Val Thr Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu Ile Leu



Leu	Ala	Ala	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu
	115					120					125				
Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu	Ile	Ser
	130					135					140				
Gly	Val	Tyr	Ile	Phe	Ala	Val	Phe	Cys	Ser	Ser	Leu	Asn	Thr	Gly	Leu
145				150						155					160
Met	Phe	Arg	Thr	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His	Tyr	Phe
			165						170					175	
Cys	Asp	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Ser	Ser	Asn	Thr	Tyr	Thr	Asn
		180						185					190		
Glu	Ile	Leu	Ile	Leu	Phe	Phe	Ala	Thr	Leu	Asn	Val	Phe	Val	Thr	Val
	195						200					205			
Leu	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Thr	Ile	Arg	Cys
	210					215					220				
Ile	His	Ser	Arg	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
225				230						235					240
His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly	Ser	Gly	Ala	Phe	Thr	Tyr
			245						250					255	
Leu	Gln	Pro	Ser	Ser	Leu	Asn	Ser	Met	Gly	Gln	Ala	Lys	Val	Ser	Ser
		260						265					270		
Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser
	275						280					285			
Leu	Arg	Asn	Lys	Asp	Val	Ser	Ile	Ala	Leu	Lys	Lys	Ile	Leu	Gln	Arg
	290					295					300				
Lys	Lys	Asn	His	Val											
305															

<210> 2111

<211> 320

<212> PRT

<213> Mus musculus

<400> 2111

Met	Leu	Tyr	Pro	Ser	Ser	Met	Ser	Glu	Ile	Thr	Asn	Phe	Thr	His	Asp
1				5				10						15	
Pro	Phe	Tyr	Phe	Ile	Leu	Thr	Gly	Ile	Pro	Gly	Phe	Glu	Asp	Ile	His
			20					25					30		
Leu	Trp	Ile	Ser	Ile	Pro	Phe	Cys	Leu	Tyr	Thr	Ile	Ser	Ile	Met	Gly
	35						40					45			
Asn	Thr	Thr	Ile	Leu	Thr	Val	Ile	Cys	Thr	Glu	Pro	Ser	Leu	His	Gln
	50					55					60				
Pro	His	Tyr	Leu	Phe	Leu	Ser	Met	Leu	Ala	Leu	Thr	Asp	Leu	Gly	Leu
65					70					75					80
Ala	Leu	Thr	Thr	Leu	Pro	Thr	Ile	Met	His	Leu	Leu	Trp	Phe	Asn	Ile
			85						90					95	
Arg	Glu	Ile	Ser	Phe	Glu	Ala	Cys	Phe	Ala	Gln	Phe	Phe	Phe	Leu	His
			100					105					110		
Gly	Phe	Ser	Phe	Met	Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ser	Phe	Asp
	115						120					125			
Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His	Tyr	Ala	Ser	Ile	Leu	Thr
	130					135					140				
Ser	Glu	Val	Ile	Ala	Arg	Ile	Gly	Leu	Ala	Ile	Ile	Cys	Arg	Cys	Val
145					150					155					160
Leu	Ala	Val	Leu	Pro	Phe	Leu	Phe	Leu	Leu	Lys	Arg	Leu	Ser	Phe	Cys
			165						170					175	
His	Ser	His	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Met	Ile
			180					185					190		
His	Leu	Val	Cys	Thr	Asp	Ile	Arg	Val	Asn	Ser	Trp	Tyr	Ala	Phe	Ala



Gly Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Ile Lys Thr Phe Gln  
 290 295 300  
 Val Ala Lys  
 305

<210> 2113  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2113  
 Met Asn His Ser Ser Val Ile Asp Phe Ile Leu Glu Gly Leu Thr Lys  
 1 5 10 15  
 Arg Pro Glu Leu Gln Leu Pro Leu Phe Leu Phe Leu Ala Ile Tyr  
 20 25 30  
 Val Ile Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu Ile Thr Ile  
 35 40 45  
 Ser Ser Gln Leu His Ser Pro Met Tyr Tyr Phe Leu Ser Xaa Xaa Xaa  
 50 55 60  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa  
 65 70 75 80  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 85 90 95  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 100 105 110  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Leu Leu Gln Lys Gly Tyr Leu  
 115 120 125  
 Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu  
 130 135 140  
 Leu Tyr Asn Ile Val Met Ser His Lys Val Cys Ser Ile Met Met Ala  
 145 150 155 160  
 Val Val Tyr Ser Leu Gly Phe Phe Gly Ala Thr Val His Thr Thr Arg  
 165 170 175  
 Met Thr Met Leu Ser Phe Cys Gly Ser His Ile Val Ser His Tyr Phe  
 180 185 190  
 Cys Asp Ile Leu Pro Leu Leu Thr Leu Ser Cys Ser Ser Thr His Ile  
 195 200 205  
 Asn Glu Val Leu Leu Phe Ile Ile Gly Gly Val Asn Thr Leu Ala Pro  
 210 215 220  
 Thr Leu Ala Phe Ile Leu Thr Ser Ile Leu Arg Ile Arg Ser Asn Glu  
 225 230 235 240  
 Gly Arg Ser Lys Ala Phe Gly Thr Cys Ser Ser His Ile Met Ala Val  
 245 250 255  
 Gly Ile Phe Phe Gly Ser Ile Thr Phe Met Tyr Phe Lys Pro Pro Ser  
 260 265 270  
 Ser Asn Asn Met Glu Gln Glu Lys Val Ser Ser Val Phe Tyr Thr Thr  
 275 280 285  
 Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp  
 290 295 300  
 Val Lys Asn Ala Leu Lys Lys Met Val Gly Gly Arg Gln Leu Ser  
 305 310 315

<210> 2114  
 <211> 335  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (102)...(108)  
 <223> Any amino acid

<400> 2114

Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Val	Leu	Phe	Lys	Arg	Glu	Lys	Leu
1				5					10					15	
Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asn	Val
			20					25					30		
Pro	His	Leu	Gln	Trp	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met	Tyr	Met
		35					40					45			
Thr	Ile	Leu	Leu	Cys	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys	Thr	Asp
	50					55					60				
Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser	Phe
65					70					75					80
Leu	Glu	Ile	Cys	Tyr	Val	Thr	Ala	Thr	Ile	Pro	Arg	Met	Leu	Met	Asp
			85						90					95	
Leu	Tyr	Thr	Lys	Glu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Glu	Thr	Phe	Leu
			100					105						110	
Cys	Leu	Pro	Val	Gln	His	Lys	Met	Tyr	Phe	Val	Leu	Thr	Leu	Gly	Gly
		115					120					125			
Thr	Glu	Cys	Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	130					135					140				
Ile	Cys	His	Pro	Leu	Gln	Tyr	Ser	Leu	Leu	Met	Lys	Asn	Lys	Val	Cys
145					150					155					160
Leu	Gln	Leu	Val	Ala	Ala	Ser	Trp	Ile	Ser	Gly	Ile	Pro	Val	Glu	Ile
			165						170					175	
Gly	Gln	Thr	Tyr	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Ala	Ser	Asn	Arg
		180					185						190		
Ile	Asp	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys
	195						200					205			
Gly	Asp	Thr	Phe	Met	Asn	Thr	Val	Ala	Val	Tyr	Val	Val	Ala	Val	Leu
	210					215					220				
Phe	Val	Met	Val	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ile	Lys	Ile
225					230					235					240
Ile	Cys	Asn	Ile	Met	Lys	Leu	Ser	Ser	Ala	Lys	Gly	Met	Ala	Lys	Ala
			245						250					255	
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly
		260						265					270		
Thr	Ala	Ser	Ile	Thr	Tyr	Leu	Gln	Pro	Lys	Gln	Ser	Gln	Ser	Glu	Gly
		275					280					285			
Met	Gly	Lys	Met	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Ala	Leu
	290					295					300				
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Met	Met	Ala	Leu
305					310					315					320
Arg	Lys	Leu	His	Ser	Lys	Leu	Leu	Ile	Trp	Trp	Glu	Asn	Leu	Lys	
			325						330				335		

<210> 2115  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2115

Met	Ser	Asn	Leu	Ser	Thr	Ser	Arg	Phe	Val	Leu	Thr	Gly	Phe	Pro	Gly
1				5					10					15	
Leu	Glu	Val	Tyr	Tyr	Phe	Phe	Phe	Ala	Ile	Pro	Phe	Ser	Thr	Ile	Tyr



Phe Val Asn Ile Asn Phe Lys Pro Tyr Val Ser Val Cys Lys Arg Asn  
 115 120 125  
 Leu Phe Leu Arg Asn  
 130

<210> 2117  
 <211> 230  
 <212> PRT  
 <213> Mus musculus

<400> 2117  
 Gln Val Leu Leu Ile Phe Trp Phe Asn Met Lys Pro Ile Ser Phe Val  
 1 5 10 15  
 Gly Cys Phe Leu Gln Met Phe Val Met Asn Thr Phe Leu Pro Met Glu  
 20 25 30  
 Ser Ser Thr Phe Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 35 40 45  
 His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Glu Gln Phe Val Ile Asn  
 50 55 60  
 Ala Ala Ile Phe Ile Val Ala Arg Asn Leu Leu Ala Thr Leu Pro Thr  
 65 70 75 80  
 Pro Val Leu Ala Ala Arg Leu Asn Tyr Cys Ala Ser Asn Val Val Glu  
 85 90 95  
 Asn Cys Ile Cys Ala Asn Ile Ser Val Ala Lys Leu Ser Cys Gly Asp  
 100 105 110  
 Ile Arg Leu Asn Lys Leu Tyr Gln Phe Val Ser Val Trp Cys Leu Leu  
 115 120 125  
 Gly Ser Asp Leu Val Leu Ile Leu Leu Ser Tyr Cys Phe Ile Leu Arg  
 130 135 140  
 Val Val Met Cys Gln Gln Ser Gly Gly Thr Val Thr Lys Ala Leu Ser  
 145 150 155 160  
 Thr Cys Gly Ser His Leu Ile Leu Ile Leu Phe Phe Ser Thr Leu Leu  
 165 170 175  
 Leu Val Phe Ile Phe Thr Asn Lys Ala Gly Lys Lys Ile Pro Ser Glu  
 180 185 190  
 Val Pro Ile Leu Leu Asn Val Leu His His Leu Ile Pro Pro Ala Leu  
 195 200 205  
 Asn Pro Ile Val Tyr Gly Val Arg Thr Gln Glu Ile Lys Gln Gly Ile  
 210 215 220  
 Ile Lys Leu Phe Lys His  
 225 230

<210> 2118  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2118  
 Met Ile Lys Asn Asn Gln Thr Leu Phe Ser Gln Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Pro Ala Glu His Gln Gln Leu Phe Phe Ala Leu Phe Leu  
 20 25 30  
 Leu Met Tyr Leu Thr Thr Ile Leu Gly Asn Leu Ile Ile Ile Leu  
 35 40 45  
 Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys



65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Thr	Tyr	Ala	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Val	Ile	Leu	Phe	Gly	Gly	Leu	Glu
			100					105					110		
Ile	Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys
		115						120				125			
Leu	Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Leu	Lys	Phe	Cys	Val	Cys
	130					135					140				
Ala	Val	Leu	Ile	Ser	Trp	Val	Phe	Asn	Leu	Leu	Tyr	Ser	Met	Leu	His
145					150					155					160
Thr	Leu	Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Ile	Ile	Cys
				165					170					175	
His	Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Ile	Tyr	Ile	Asn	Glu	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Leu	Val
		195					200					205			
Val	Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Ile	Phe
	210					215					220				
Ser	Ile	Leu	Lys	Ala	Ser	Ser	Thr	Arg	Ala	Ile	Tyr	Lys	Val	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ser	Tyr	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val
				245					250					255	
Ile	Gly	Leu	Tyr	Phe	Cys	Pro	Ser	Glu	Asn	Asn	Phe	Thr	Ala	Lys	Glu
			260					265					270		
Ala	Ser	Ile	Thr	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Glu	Ala	Leu	Ile	Lys
	290					295					300				
Val	Leu	Ile	Lys	Lys	Ile	Pro	Leu								
305					310										

<210> 2119

<211> 314

<212> PRT

<213> Mus musculus

<400> 2119

Met	Ile	Met	Asn	Asn	Gln	Thr	Ala	Ile	Phe	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Asp	Tyr	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Val	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35				40						45			
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asp	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Ser	Tyr	Gly	Ala
				85					90					95	
Cys	Leu	Thr	Gln	Ile	Tyr	Phe	Phe	Leu	Val	Phe	Gly	Asn	Met	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Leu	Lys	Leu	Cys	Thr	Cys	Leu
	130					135					140				
Met	Leu	Leu	Ser	Trp	Met	Leu	Thr	Thr	Ser	His	Ala	Met	Met	His	Thr
145					150					155					160

Leu	Leu	Ala	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Val	Leu	Asn
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Phe	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Tyr	Val	Asn	Glu	Leu	Met	Ile	Phe	Leu	Val	Ser	Gly	Leu	Leu	Val	Val
		195					200					205			
Ile	Pro	Phe	Leu	Leu	Ile	Val	Ile	Ser	Tyr	Ala	Lys	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Arg	Val	Pro	Ser	Thr	Lys	Gly	Ile	Tyr	Lys	Val	Phe	Ser	Thr
225					230					235				240	
Cys	Arg	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr	Leu	Lys	Glu	Asn
			260					265					270		
Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Val	Arg	Val
	290					295					300				
Val	Cys	Asn	Lys	Lys	Ile	Ser	Leu	Lys	Trp						
305					310										

<210> 2120

<211> 318

<212> PRT

<213> Mus musculus

<400> 2120

Met	Glu	Leu	Lys	Asn	Gln	Thr	Ala	Val	Ser	Glu	Phe	His	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asn	His	Arg	Met	Leu	Pro	Leu	Val	Phe	Ile	Met	Phe	Leu
			20					25					30		
Phe	Met	Tyr	Leu	Ile	Thr	Val	Phe	Gly	Asn	Leu	Ile	Ile	Ile	Met	Ala
		35					40					45			
Ile	Ser	Ser	Gly	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Ile	Leu	Ser	Ile	Asn	Asp	Ile	Cys	Tyr	Ser	Thr	Val	Thr	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Ile	Gln	Ala	His	Asp	Asp	Ser	Ile	Ser	Tyr	Ile	Glu
			85						90					95	
Cys	Leu	Ser	Gln	Ile	Cys	Phe	Val	Ser	Ile	Phe	Gly	Gly	Met	Glu	Asn
			100					105					110		
Cys	Phe	Ser	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Lys	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Ile	Cys	Cys	Val	Leu
	130					135					140				
Met	Val	Leu	Phe	Ser	Leu	Phe	Phe	Ser	Ile	Met	Asp	Ala	Leu	Leu	His
145					150					155				160	
Ser	Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Pro
			165						170					175	
His	Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile	Ile	Lys	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Thr	Phe	Leu	Asn	Asn	Phe	Leu	Ile	Phe	Val	Ala	Ala	Phe	Val	Phe	Gly
		195					200					205			
Gly	Gly	Pro	Val	Cys	Gly	Ile	Ile	Phe	Ser	Tyr	Ile	Tyr	Ile	Val	Ser
	210					215					220				
Ser	Val	Leu	Arg	Met	Pro	Ser	Ser	Gly	Gly	Lys	His	Arg	Ala	Phe	Ser
225					230					235				240	
Thr	Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly



<210> 2122  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2122

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Met Val Met Asn Asn Gln Thr Val Ile Ser Gln Leu Leu Leu Leu Gly
 1          5          10          15
Leu His Ile Pro Pro Asp His Gln His Gly Phe Tyr Thr Leu Phe Leu
          20          25          30
Ala Met Tyr Leu Thr Thr Ile Leu Gly Asn Leu Ile Ile Ile Thr Leu
          35          40          45
Ile Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ile
          50          55          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Val Pro Lys
65          70          75          80
Leu Leu Gln Asn Met Gln Ser Gln Asp Thr Ser Ile Ser Tyr Ala Gly
          85          90          95
Cys Leu Thr Gln Met Tyr Phe Leu Met Val Phe Gly Asp Met Glu Ser
          100          105          110
Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
          115          120          125
Pro Leu His Tyr Thr Ser Thr Met Ser Pro Thr Val Leu Cys Val Cys
          130          135          140
Val Val Leu Leu Ser Trp Val Phe Thr Ile Met Tyr Ser Met Val His
145          150          155          160
Thr Leu Leu Leu Ser Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Pro
          165          170          175
His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp
          180          185          190
Ile Phe Ile Asn Glu Leu Met Ile Phe Ile Leu Gly Gly Pro Val Val
          195          200          205
Ala Ile Pro Phe Leu Leu Ile Val Val Ser Tyr Val Arg Ile Val Ser
          210          215          220
Ser Ile Leu Lys Val Ser Ser Ser Gln Gly Ile His Lys Ile Phe Ser
225          230          235          240
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile
          245          250          255
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Lys
          260          265          270
Ile Ala Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
          275          280          285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Ile Arg
          290          295          300
Val Leu Cys Lys Lys Lys Ile Ser Leu
305          310

```

<210> 2123  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2123

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Met Ala Arg Gly Asn Gln Thr Ser Thr Phe Glu Phe Leu Leu Trp Gly
 1          5          10          15
Leu Ser Glu Gln Pro Gln Gln Gln His Ile Leu Phe Leu Ile Phe Leu
          20          25          30
Gly Met Tyr Leu Val Thr Val Ala Gly Asn Leu Leu Ile Val Leu Ala

```



Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115						120				125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Arg	Pro	Ser	Ile	Cys	Trp	Leu	Gly
		130					135					140			
Val	Ala	Thr	Ser	Trp	Ile	Leu	Gly	Leu	Leu	Ser	Ala	Leu	Gly	Tyr	Thr
145						150				155					160
Ile	His	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Lys	Ile	Arg	Asp
				165					170					175	
Leu	Tyr	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
			180					185					190		
Ser	Lys	Tyr	Glu	Leu	Met	Val	Tyr	Val	Met	Gly	Val	Ala	Phe	Leu	Ile
		195					200					205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ile	Leu	Ile	Leu	Phe	Thr
		210				215						220			
Val	Leu	Asn	Lys	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Phe	Ser	His	Leu	Thr	Val	Val	Gly	Leu	Tyr	Tyr	Gly	Ala	Leu	Thr
				245				250						255	
Val	Met	Tyr	Val	Leu	Pro	Ser	Ser	Tyr	Leu	Ser	Pro	Lys	Gln	Glu	Asn
			260					265					270		
Leu	Leu	Ser	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Val
	290					295					300				
Leu	Gly	Lys	Trp	Phe	Leu	Pro	Thr	Gln	Ser	Thr	Phe				
305					310					315					

<210> 2125

<211> 314

<212> PRT

<213> Mus musculus

<400> 2125

Met	Asn	Asn	Tyr	Thr	Thr	Gln	Ser	Asp	Phe	Thr	Leu	Val	Gly	Phe	Phe
1				5					10					15	
Ser	Gln	Ser	Lys	His	Pro	Ala	Leu	Leu	Ala	Val	Val	Ile	Phe	Val	Leu
			20					25					30		
Phe	Leu	Met	Ala	Leu	Ser	Gly	Asn	Ala	Leu	Leu	Ile	Leu	Leu	Ile	Leu
		35					40					45			
Ser	Asp	Ile	His	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Met	Asp	Met	Met	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met	Leu
65					70					75					80
Met	Asp	Gln	Val	Leu	Gly	Ser	His	Lys	Ile	Ser	Ala	Ala	Ala	Cys	Gly
			85						90					95	
Met	Gln	Met	Phe	Leu	Tyr	Val	Thr	Leu	Ala	Gly	Ser	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Gln	Tyr	Pro	Val	Leu	Met	Asn	His	Arg	Val	Cys	Leu	Leu	Leu	Met	Ser
	130					135					140				
Leu	Cys	Trp	Val	Leu	Gly	Ser	Leu	Asp	Gly	Phe	Met	Phe	Thr	Pro	Val
145					150					155					160
Thr	Met	Thr	Phe	Pro	Phe	Cys	Gly	Ser	Arg	Glu	Ile	His	His	Phe	Phe
				165					170					175	
Cys	Glu	Val	Pro	Ala	Val	Thr	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Trp	Leu
			180					185					190		
Tyr	Glu	Thr	Leu	Met	Tyr	Val	Cys	Cys	Val	Leu	Met	Leu	Leu	Ile	Pro

Val	Thr	Val	Ile	Ser	Gly	Ser	Tyr	Thr	Ser	Ile	Leu	Leu	Thr	Val	Leu
210						215					220				
Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ala	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ala	Val	Tyr	Thr
				245					250					255	
Tyr	Met	Leu	Pro	Ala	Ser	Leu	His	Thr	Pro	Glu	Lys	Asp	Val	Val	Ala
			260					265					270		
Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Ser	Phe	Arg	Asn	Lys	Asn	Val	Thr	Glu	Ala	Val	Lys	Lys	Leu	Leu	Gly
	290					295					300				
Val	Ser	Thr	Leu	Phe	Gln	Glu	Thr	Val	Lys						
305					310										

<210> 2126

<211> 317

<212> PRT

<213> Mus musculus

<400> 2126

Met	Glu	Lys	Thr	Asn	His	Ser	Leu	Thr	Thr	Gln	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Thr	Pro	Leu	Phe	Leu	Leu	Phe	Ser
			20					25					30		
Val	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val	Ala	Val
		35				40					45				
Ile	Tyr	Leu	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Ile	Leu	Glu	Asn	Phe	Phe	Ser	Val	Asp	Arg	Arg	Ile	Ser	Leu	Tyr	Glu
			85					90					95		
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Ala	Asp	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Gln	Tyr	His	Ser	Met	Met	Ser	Lys	Lys	Leu	Ser	Ile	Gln	Met
		130				135					140				
Ser	Ile	Gly	Thr	Phe	Ile	Thr	Ser	Asn	Leu	His	Ser	Leu	Ile	His	Val
145					150					155					160
Gly	Cys	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Arg	Ile	Asp	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Thr	Asp	Pro
			180					185					190		
Phe	Ile	Asn	Glu	Leu	Met	Ile	Tyr	Ile	Phe	Ser	Met	Pro	Ile	Gln	Val
		195					200					205			
Phe	Thr	Ile	Thr	Thr	Val	Leu	Val	Ser	Tyr	Phe	Cys	Ile	Leu	Leu	Thr
	210					215					220				
Ile	Phe	Lys	Met	Lys	Ser	Lys	Asp	Gly	Arg	Gly	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Phe	Ser	Val	Ser	Ile	Phe	Tyr	Val	Cys	Leu	Leu
				245					250					255	
Met	Tyr	Ile	Arg	Pro	Phe	Asp	Glu	Gly	Asn	Lys	Asp	Ile	Pro	Val	Ala
			260					265					270		
Val	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser
		275					280						285		

Leu	Arg	Asn	Lys	Glu	Val	Val	Asn	Ala	Val	Lys	Lys	Val	Met	Lys	Thr
	290						295				300				
His	Ser	Ile	Phe	Lys	Asn	Ala	Ser	Ala	Ser	Met	Ala	Arg			
305					310					315					

<210> 2127  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2127

Met	Gln	Asn	Gln	Ser	Phe	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Lys	Val	Glu	Lys	Ile	Leu	Phe	Val	Val	Phe	Leu	Leu	Val
			20					25					30		
Tyr	Ile	Ala	Thr	Ile	Gly	Gly	Asn	Met	Ile	Ile	Val	Val	Thr	Ile	Ile
		35					40					45			
Tyr	Ser	Pro	Ala	Leu	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ile	Phe
	50					55					60				
Leu	Ser	Phe	Leu	Asp	Ala	Cys	Thr	Ser	Ser	Thr	Val	Thr	Pro	Lys	Met
65					70					75					80
Ile	Val	Asp	Phe	Phe	Tyr	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Cys	Cys
				85					90					95	
Ile	Thr	Gln	Leu	Phe	Thr	Ser	His	Phe	Phe	Ala	Gly	Val	Glu	Val	Ile
			100					105					110		
Ile	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
	115					120						125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Arg	Arg	Leu	Cys	Gly	Thr	Leu	Val
	130					135					140				
Met	Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ser	Ile	Thr	Gln	Val	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Phe	Ile	Asp	His	Phe
				165					170					175	
Ile	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ala	Cys	Thr	Asp	Thr	His
		180						185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Phe	Cys	Ile	Ile
	195						200					205			
Ile	Phe	Ser	Leu	Leu	Ile	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu
	210					215					220				
Arg	Gly	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Thr	Val	Met	Ile	Leu	Phe	Phe	Val	Pro	Cys	Met	Leu	Ile
				245					250					255	
Tyr	Ala	Arg	Pro	Ser	Ser	Ala	Phe	Ser	Phe	Glu	Lys	Asn	Thr	Leu	Ile
			260					265					270		
Phe	Ala	Ser	Val	Leu	Thr	Pro	Leu	Phe	Asn	Pro	Met	Val	Tyr	Thr	Phe
	275						280					285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Cys	Arg	Lys	Leu
	290					295					300				
Leu	Val	Asp	Ser	Asp	Asn	Phe									
305					310										

<210> 2128  
 <211> 201  
 <212> PRT  
 <213> Mus musculus



<400> 2128

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Leu Gly Leu Ser Ala Asp Pro Glu Leu Gln Pro Ile Ile Phe Gly Leu
 1          5          10          15
Phe Leu Phe Met Tyr Leu Val Thr Phe Leu Gly Asn Leu Ile Ile Thr
 20          25          30
Leu Thr Ile Ser Ala Glu Cys His Leu His Thr Pro Met Tyr Phe Phe
 35          40          45
Leu Ser Asn Leu Ser Val Ala Asp Ile Cys Ile Ser Ser Thr Thr Val
 50          55          60
Pro Lys Met Leu Leu Asn Ile Gln Thr Gln Asp His Arg Ile Thr Tyr
 65          70          75          80
Ser Gly Cys Leu Thr Gln Ala Cys Phe Val Leu Leu Phe Ala Gly Leu
 85          90          95
Glu Asn Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
 100          105          110
Cys His Pro Leu Arg Tyr Thr Val Ile Met Asn Ser Cys Phe Cys Ser
 115          120          125
Ile Leu Ile Val Val Ser Leu Ala Ile Ser Ala Val Asn Ala Leu Leu
 130          135          140
Leu Ser Leu Met Val Leu His Leu Asn Phe Cys Thr Lys Val Glu Ile
 145          150          155          160
Pro His Phe Phe Cys Glu Leu Ala Gln Ile Ile Lys Leu Ala Cys Ser
 165          170          175
Asp Thr Leu Ile Asn Asn Ile Leu Ile Tyr Ile Ser Ala Phe Met Phe
 180          185          190
Gly Gly Ile Pro Phe Phe Gly Ile Phe
 195          200
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<210> 2129

<211> 317

<212> PRT

<213> Mus musculus

<400> 2129

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Met Val Ser Leu Asn His Thr Gln Phe His Pro Tyr Phe Leu Leu Leu
 1          5          10          15
Leu Leu Gly Ile Pro Gly Leu Glu Asp Thr His Leu Trp Ile Gly Phe
 20          25          30
Pro Phe Cys Val Val Val Val Val Tyr Leu Thr Ala Leu Leu Gly Asn
 35          40          45
Ile Thr Ile Ile Ser Val Ile Gln Thr Glu His Ser Leu His Gln Pro
 50          55          60
Met Phe Tyr Phe Leu Ser Ile Leu Ser Ser Ile Val Leu Gly Leu Ser
 65          70          75          80
Thr Ser Thr Ile Pro Glu Met Leu Arg Thr Phe Trp Leu Asn Phe Lys
 85          90          95
Lys Ile Leu Phe Asp Gly Gly Val Ile Gln Met Phe Phe Ile His Leu
 100          105          110
Phe Ile Gly Met Glu Ser Ala Val Leu Leu Ala Met Ala Tyr Asp Arg
 115          120          125
Tyr Val Ala Ile Cys Asn Pro Leu His Tyr Thr Leu Val Leu Thr Asn
 130          135          140
Lys Val Val Phe Ile Asn Ala Cys Leu Val Leu Leu Arg Pro Leu Val
 145          150          155          160
Thr Ala Ile Pro Phe Ile Val Leu Ile Gln Arg Leu Pro Phe Cys Gly
 165          170          175
His Gln Val Ile Leu His Thr Tyr Cys Glu His Met Gly Ile Thr Leu
 180          185          190
```

Leu	Pro	Cys	Ala	Ser	Ile	Lys	Val	Asn	Ile	Ile	Tyr	Gly	Leu	Cys	Ala
		195					200					205			
Ile	Ser	Thr	Leu	Val	Phe	Asp	Ile	Val	Ala	Ile	Ile	Val	Ser	Tyr	Ile
		210				215					220				
Ile	Gln	Val	Leu	His	Ala	Val	Ser	His	Leu	Pro	Ser	Arg	Asp	Ala	Arg
225					230					235				240	
Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Ser
			245						250					255	
Phe	Cys	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Met	Ile	Asn	Gln	Phe	Glu	Arg
			260					265					270		
Asn	Val	Pro	Arg	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val
		275					280					285			
Ile	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Lys
	290				295						300				
Ile	Arg	Glu	Arg	Val	Ala	Met	Ala	Ile	Arg	Asn	Lys	Leu			
305					310					315					

<210> 2130  
 <211> 162  
 <212> PRT  
 <213> Mus musculus

<400> 2130

Met	Asn	Trp	Ile	Leu	His	Thr	Thr	Met	Val	Ser	Pro	Asn	Gln	Thr	Val
1				5					10					15	
Val	Thr	Glu	Phe	Val	Leu	Gln	Gly	Phe	Ser	Glu	His	Pro	Ser	Leu	Arg
			20					25					30		
Leu	Phe	Leu	Met	Gly	Cys	Phe	Leu	Ser	Leu	Tyr	Thr	Val	Ala	Leu	Met
		35					40					45			
Gly	Asn	Met	Val	Ile	Ile	Ala	Leu	Ile	Thr	Ser	Ser	Thr	Gly	Leu	His
	50					55					60				
Ser	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile	Ile
65					70					75				80	
Cys	Thr	Ser	Ser	Val	Leu	Pro	Lys	Ala	Leu	Val	Gly	Leu	Leu	Tyr	Glu
				85					90					95	
Glu	Asn	Thr	Ile	Ser	Phe	Lys	Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu
			100					105					110		
Leu	Trp	Ser	Gly	Ser	Ser	Glu	Val	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr
		115					120					125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His	Tyr	Ser	Ser	Arg	Met
	130					135					140				
Ser	Pro	Gln	Leu	Cys	Ala	Ala	Thr	Gly	Arg	Gly	Cys	Met	Val	His	Leu
145					150					155					160
Cys	Cys														

<210> 2131  
 <211> 263  
 <212> PRT  
 <213> Mus musculus

<400> 2131

Leu	Leu	Pro	Leu	Pro	Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu
1				5					10					15	
Leu	Ile	Ile	Val	Leu	Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met
			20					25					30		
Tyr	Phe	Phe	Leu	Arg	Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr



Ile	Leu	Ile	Tyr	Met	Ile	Leu	Leu	Asp	Val	Ile	Leu	Ser	Ala	Leu	Ser
			180					185					190		
Tyr	Val	Lys	Ile	Leu	His	Ala	Val	Phe	Lys	Leu	Pro	Ser	Trp	Glu	Ala
		195					200					205			
Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Gly	Ser	His	Val	Cys	Met	Ile	Leu
	210					215					220				
Ala	Phe	Phe	Thr	Pro	Ala	Leu	Phe	Ser	Phe	Leu	Ala	His	Arg	Phe	Gly
225					230					235					240
His	Asn	Ile	Pro	Arg	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Ile
				245					250					255	
Ile	Ile	Pro	Leu	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Met	Arg	Thr	Lys
			260					265					270		
Gln	Ile	Gln	Asp	Arg	Pro	Val	Thr	Ile	Leu	Phe	Ser	Lys	Glu	Val	Leu
		275					280					285			
Leu															

<210> 2133  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2133

Val	Met	Tyr	Ile	Leu	Phe	Phe	Cys	Arg	Lys	Leu	Gln	Asp	Gly	Ser	Leu
1				5					10					15	
Leu	Tyr	Phe	Phe	Pro	Leu	Leu	Phe	Ile	Tyr	Thr	Phe	Ile	Val	Ile	Gly
			20					25					30		
Asn	Leu	Leu	Ile	Phe	Phe	Ala	Val	Arg	Leu	Asp	Ser	His	Leu	His	Asn
		35					40					45			
Pro	Met	Tyr	Asn	Phe	Ile	Ser	Ile	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr
	50					55					60				
Thr	Thr	Ala	Thr	Ile	Pro	Lys	Met	Leu	Ser	Asn	Leu	Ile	Asn	Glu	Lys
65				70						75					80
Lys	Ser	Ile	Thr	Ile	Thr	Gly	Cys	Leu	Leu	Gln	Met	Tyr	Phe	Phe	His
			85					90						95	
Ser	Leu	Gly	Asn	Ser	Glu	Gly	Ile	Leu	Leu	Ile	Ser	Met	Ala	Val	Asp
			100					105					110		
Arg	Tyr	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Gln	Met	Thr	Met	Thr
		115					120					125			
Pro	Ser	Leu	Cys	Val	Gln	Leu	Ser	Ala	Gly	Ser	Cys	Ile	Phe	Gly	Phe
	130					135					140				
Leu	Ile	Leu	Leu	Pro	Glu	Ser	Val	Met	Ile	Ser	Thr	Leu	Pro	Phe	Cys
145				150					155						160
Gly	Pro	Asn	Gln	Ile	His	Gln	Ile	Phe	Asp	Leu	Val	Pro	Val	Leu	Ser
			165					170						175	
Leu	Ala	Cys	Thr	Asp	Thr	Ser	Met	Ile	Val	Ile	Glu	Asp	Val	Ile	His
			180					185					190		
Ala	Val	Ala	Ile	Ile	Ile	Thr	Phe	Leu	Thr	Ile	Ala	Leu	Ser	Tyr	Val
		195					200					205			
Arg	Ile	Val	Ile	Met	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Gly	His	Leu	Met	Val	Phe	Leu	Ile	Phe
225					230					235					240
Phe	Gly	Ser	Val	Ser	Leu	Met	His	Leu	Arg	Phe	Asn	Ala	Thr	Tyr	Pro
				245					250					255	
Pro	Val	Leu	Glu	Thr	Ala	Ile	Ala	Leu	Met	Phe	Thr	Val	Leu	Ala	Pro
			260					265					270		
Phe	Phe	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Glu	Asn

	275		280		285										
Ala	Ile	Lys	Arg	Leu	Phe	Cys	Leu	His	Lys	Val	Leu	Asn	Thr	Ser	Glu
	290					295					300				
Ser															
305															

<210> 2134  
 <211> 286  
 <212> PRT  
 <213> Mus musculus

<400> 2134

Trp	Leu	His	Ser	Thr	Leu	Phe	Tyr	Phe	Thr	Ser	Asn	Phe	Leu	Glu	Ile
1				5					10					15	
Pro	Gly	Leu	Glu	Asn	Met	His	Cys	Trp	Ile	Gly	Phe	Pro	Phe	Phe	Ala
			20					25					30		
Val	Leu	Leu	Thr	Ala	Val	Leu	Gly	Asn	Ile	Thr	Ile	Val	Cys	Val	Ile
		35					40					45			
Gln	Thr	Glu	Tyr	Ser	Leu	Pro	Gln	Pro	Met	Phe	Tyr	Phe	Leu	Ala	Ile
	50					55					60				
Leu	Ser	Ser	Thr	Asp	Leu	Ser	Ser	His	Leu	Gln	Ser	Pro	Gln	Phe	Leu
65					70					75					80
Glu	Ser	Cys	Ser	Arg	Lys	Asp	Ile	Ile	Gln	Met	Phe	Cys	Ile	Tyr	Val
				85					90					95	
Phe	Ser	Gly	Met	Glu	Ser	Ala	Val	Leu	Val	Ala	Met	Ala	Tyr	Asp	His
			100					105					110		
Phe	Met	Ala	Asn	Cys	Cys	Pro	Leu	His	Tyr	Thr	Leu	Val	Leu	Thr	Asn
	115						120					125			
Lys	Val	Ile	Phe	Ile	Ile	Ser	Trp	Val	Ile	Leu	Leu	Arg	Ser	Leu	Val
	130					135					140				
Phe	Phe	Ala	Met	Pro	Phe	Val	Leu	Leu	Thr	Leu	Trp	Leu	Pro	Phe	Tyr
145					150					155					160
Lys	His	Gln	Ile	Thr	Leu	His	Leu	His	Gln	Cys	His	Gln	Ile	Tyr	Gly
				165					170					175	
Leu	Cys	Ala	Thr	Pro	Ile	Leu	Ile	Cys	Asp	Ile	Val	Ala	Ile	Ile	Ile
			180					185					190		
Ser	Tyr	Val	Gln	Ile	Phe	Ser	Ala	Ala	Phe	Gln	Leu	Ser	Ser	Gln	Asp
		195					200					205			
Ala	Gln	Leu	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Ala	Cys	Cys	His
	210					215					220				
Leu	Thr	Phe	Tyr	Thr	Leu	Val	Phe	Phe	Ser	Phe	Met	Thr	His	Arg	Phe
225					230					235					240
Gly	His	Asn	Ile	Pro	His	Cys	Ile	His	Ile	Leu	Val	Ala	Ser	Val	Tyr
				245					250					255	
Val	Val	Ile	Leu	Pro	Val	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Ile	Arg	Thr
			260				265						270		
Lys	Trp	Ile	Glu	Gln	Val	Leu	Lys	Met	Phe	Cys	Lys	Lys			
	275					280					285				

<210> 2135  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2135

Ser	Ser	Asn	Thr	Leu	Asn	Tyr	Thr	Asn	Val	Arg	Asp	Ile	Trp	Tyr	Thr
1				5					10					15	

Met	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Glu	Ser	His	Ile	Trp	Ile	Ser	Ile
		20					25					30			
Pro	Ile	Cys	Ser	Ile	Tyr	Ile	Val	Ala	Ile	Ala	Gly	Asn	Ala	Leu	Leu
		35					40					45			
Leu	Phe	Leu	Ile	Ile	Thr	Glu	Arg	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Ser	Met	Leu	Ala	Leu	Ala	Asp	Ile	Leu	Ser	Thr	Val	Thr	Thr
65					70					75					80
Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Ala	Gly	Gly	Ile	Ser	Phe
				85					90					95	
Ala	Ser	Cys	Val	Ser	Gln	Met	Phe	Phe	Leu	His	Phe	Ile	Phe	Val	Ala
			100					105					110		
Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Val	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Thr	Ser	Val	Ile	Ile
	130					135					140				
Lys	Met	Gly	Ile	Ala	Ala	Val	Ile	Arg	Ser	Phe	Phe	Ile	Cys	Phe	Pro
145					150					155					160
Leu	Ile	Phe	Leu	Val	Tyr	Arg	Leu	Thr	Tyr	Cys	Gly	Arg	Asn	Ile	Ile
				165					170					175	
Arg	His	Ser	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys	Asp
			180					185					190		
Ser	Ile	Lys	Val	Asn	Ile	Tyr	Tyr	Gly	Met	Ile	Val	Ala	Leu	Phe	Ser
		195					200					205			
Ile	Cys	Leu	Asp	Ala	Val	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Leu	Ile	Leu
	210					215					220				
Cys	Ala	Val	Phe	Arg	Ile	Pro	Ser	Arg	Asp	Ala	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Leu	Phe	Tyr	Thr	Pro
				245					250					255	
Ala	Phe	Phe	Ser	Phe	Phe	Ala	His	Arg	Phe	Gly	Gly	His	Ser	Ile	Pro
			260					265					270		
Leu	His	Val	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro
		275					280					285			
Ser	Val	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Gln	Glu
	290					295					300				
Arg	Ile	Ile	Gln	Met	Phe	Ser	Leu	Gly	Lys	Ser	Phe	Cys			
305					310					315					

<210> 2136

<211> 245

<212> PRT

<213> Mus musculus

<400> 2136

Met	Leu	His	Met	Gln	Asp	Asn	Thr	Glu	Phe	Leu	Ser	Asn	Phe	Thr	Ser
1				5				10						15	
Gln	Leu	Pro	Thr	Phe	Leu	Leu	Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Ala
			20					25				30			
His	Ser	Trp	Ile	Ser	Ile	Pro	Phe	Cys	Cys	Leu	Tyr	Ala	Thr	Ala	Leu
		35					40				45				
Ser	Gly	Asn	Ser	Met	Ile	Leu	Phe	Ile	Ile	Val	Thr	Gln	His	Ser	Leu
	50					55					60				
His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Ala	Thr	Asp	Leu
65					70					75					80
Gly	Leu	Thr	Phe	Ser	Thr	Met	Ser	Thr	Thr	Leu	Arg	Ile	Leu	Trp	Phe
				85					90					95	
Gln	Ala	Asn	Glu	Ile	Ser	Leu	Asp	Phe	Cys	Ile	Val	Gln	Met	Phe	Phe



<210> 2138  
 <211> 219  
 <212> PRT  
 <213> Mus musculus

<400> 2138  
 Ser Ile Ser Ile Met Gly Cys Met Leu Gln Leu Leu Ala Tyr Gly Thr  
 1 5 10 15  
 Phe Ala Thr Ile Asp Ser Phe Ile Leu Ala Ala Met Ala Val Asp Arg  
 20 25 30  
 Tyr Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Ile Val Met Ser Gln  
 35 40 45  
 Arg Leu Cys Ile Leu Leu Leu Val Gly Ser Tyr Thr Met Gly Phe Leu  
 50 55 60  
 Asn Ala Ser Val Asn Thr Ser Phe Thr Phe Ser Leu Lys Phe Cys Lys  
 65 70 75 80  
 Ser Asn Ala Ile Asn His Phe Phe Cys Asp Glu Pro Pro Ile Leu Ala  
 85 90 95  
 Leu Ser Cys Ser Ser Ile Asp Phe Ser Ile Met Leu Leu Thr Val Phe  
 100 105 110  
 Val Gly Phe Asn Leu Val Ser Thr Val Leu Val Val Ile Phe Ser Tyr  
 115 120 125  
 Thr Tyr Val Leu Ser Ala Ile Leu Arg Met Ser Ser Ala Ala Gly Arg  
 130 135 140  
 Lys Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Ala Val Thr Ile  
 145 150 155 160  
 Phe Tyr Gly Thr Leu Ala Tyr Met Tyr Leu His Pro His Thr Asn Asp  
 165 170 175  
 Ser Gln Glu Gln Glu Lys Ala Ala Ser Val Phe Tyr Gly Ile Ile Ile  
 180 185 190  
 Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Val Ile  
 195 200 205  
 Glu Ala Phe Lys Lys Ile Val Lys Lys Cys Leu  
 210 215

<210> 2139  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2139  
 Met Ala Glu Gly Asn Gln Ser Thr Val Thr Glu Phe Ile Leu Thr Gly  
 1 5 10 15  
 Leu Thr Asn Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Gly Ile Tyr Leu Phe Thr Glu Leu Gly Asn Leu Gly Met Val Ile Leu  
 35 40 45  
 Ile Ser Ile Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Ser Leu Ser Phe Ile Asp Leu Cys Tyr Ser Thr Val Ile Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Val Thr Glu Lys Asn Ile Ile Ser Tyr Pro Glu  
 85 90 95  
 Cys Met Thr Gln Leu Tyr Cys Phe Leu Val Leu Val Ile Ser Glu Cys  
 100 105 110  
 Tyr Met Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn



Pro	Leu	Arg	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Leu	Trp	Met
115	130					120	135				125	140			
Ile	Gly	Gly	Val	Tyr	Cys	Ile	Gly	Leu	Ile	Glu	Ala	Thr	Leu	His	Ile
145					150					155					160
Val	Cys	Met	Leu	Arg	Val	Leu	Phe	Cys	Lys	Ala	Asn	Val	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Gln	Leu	Ala	Cys	Ser	Ser	Thr
			180					185					190		
Phe	Val	Asn	Glu	Val	Val	Leu	Leu	Cys	Leu	Ser	Thr	Phe	Asn	Phe	Cys
		195					200					205			
Val	Pro	Met	Leu	Thr	Ile	Leu	Ser	Ser	Tyr	Ser	Phe	Ile	Ile	Ala	Ser
210						215									
Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu	Ser	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Phe	Thr	Ser	Val	Ala	Val	Phe	Phe	Gly	Ser	Leu	Gly
				245					250					255	
Phe	Met	Tyr	Phe	Gln	Pro	Ser	Ser	Val	Ser	Ser	Glu	Asp	Gln	Gly	Lys
			260					265					270		
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu
		275				280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Asn	Lys	Leu
290						295					300				
Leu	Arg	Lys	Lys	Thr	Phe	His	Met								
305					310										

<210> 2140

<211> 287

<212> PRT

<213> Mus musculus

<400> 2140

Asn	Pro	Phe	Leu	Pro	Asn	Leu	Leu	Leu	Gly	His	Asp	Val	Cys	Ala	Gly
1				5					10					15	
Ile	Glu	Thr	Leu	Thr	Lys	Thr	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu
			20					25					30		
His	His	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ala	Ser	Ile	Asp	Ile
		35				40						45			
Ala	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Val
	50					55				60					
Lys	Gln	Asn	Thr	Ile	Ser	Tyr	Ile	Gly	Cys	Ser	Ile	Gln	Phe	Gly	Ser
65					70				75					80	
Thr	Ala	Phe	Trp	Gly	Thr	Val	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala
			85					90					95		
Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Asn	Gln	Leu	Leu	Tyr	Ser	Thr	Lys
			100				105						110		
Met	Ser	Thr	Glu	Ala	Cys	Ile	Gln	Leu	Val	Leu	Gly	Ser	Tyr	Ile	Gly
		115					120					125			
Gly	Phe	Leu	Thr	Ala	Leu	Ser	Phe	Ile	Leu	Ser	Phe	Phe	Leu	Phe	Ile
	130					135					140				
Phe	Cys	Gly	Pro	Asn	Arg	Ile	Asn	His	Phe	Phe	Cys	Asp	Ala	Pro	Leu
145					150					155					160
Val	Glu	Leu	Ser	Cys	Ser	Asp	Val	Ser	Val	Ser	Val	Leu	Val	Thr	Ser
				165					170					175	
Phe	Phe	Val	Gly	Leu	Val	Thr	Val	Ile	Thr	Val	Phe	Val	Ile	Ala	Ile
		180						185					190		
Ser	Tyr	Ile	Tyr	Ile	Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu
	195						200						205		

Gly	Ser	His	Arg	Ala	Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val
	210					215				220					
Thr	Leu	Phe	Tyr	Gly	Thr	Val	Thr	Phe	Ile	Tyr	Val	Ile	Pro	Lys	Ser
225					230					235					240
Asn	Tyr	Ser	Thr	Asp	Gln	Lys	Lys	Val	Val	Ser	Val	Phe	Tyr	Thr	Val
				245					250					255	
Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Gln
			260					265					270		
Ile	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Leu	Gly	Lys	Lys	Ile	Phe	Ser	
		275					280					285			

<210> 2141

<211> 89

<212> PRT

<213> Mus musculus

<400> 2141

Met	Ser	Ala	Ser	Leu	Lys	Asp	Phe	Asn	Ser	Ser	Lys	Phe	Leu	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp
			20					25					30		
Leu	Ser	Leu	Pro	Leu	Thr	Leu	Leu	Tyr	Leu	Ser	Ala	Ile	Gly	Thr	Asn
		35				40						45			
Val	Leu	Ile	Leu	Ile	Ile	Ile	Cys	Gln	Asp	Pro	Ser	Leu	Lys	Gln	Pro
	50					55					60				
Met	Tyr	Leu	Phe	Leu	Gly	Ile	Leu	Ser	Leu	Val	Asp	Met	Gly	Leu	Ala
65					70					75					80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala							
				85											

<210> 2142

<211> 318

<212> PRT

<213> Mus musculus

<400> 2142

Leu	Ala	Phe	Leu	Glu	Tyr	Gly	Asp	His	Thr	Thr	Val	Lys	Glu	Cys	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Phe	Arg	Val	Ile	Leu	Phe	Ser
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50				55						60				
Phe	Leu	Ser	His	Leu	Gly	Ser	Pro	Asp	Ile	Gly	Ala	Ser	Ser	Val	Thr
65					70					75					80
Pro	Ile	Met	His	Val	Asn	Phe	Leu	Val	Asp	Lys	Asn	Ile	Ile	Met	Thr
			85						90					95	
Leu	Gly	Cys	Asn	Ile	His	Leu	Gly	Ser	Gly	Ala	Phe	Phe	Gly	Thr	Val
			100					105					110		
Glu	Cys	Phe	Val	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Cys	Phe	Val	Ala	Ile
		115					120					125			
Cys	Ser	Ser	Leu	Leu	Tyr	Ser	Asn	Lys	Met	Ser	Ser	Gln	Val	Cys	Val
		130					135				140				
Gln	Leu	Leu	Val	Val	Thr	Tyr	Val	Ser	Ser	Phe	Leu	Asn	Thr	Ser	Cys
145					150					155					160
Phe	Thr	Leu	Ser	Phe	Phe	Ser	Phe	Tyr	Phe	Cys	Gly	Pro	Asn	Arg	Ile

Lys	Leu	Phe	Phe	Cys	Asp	Phe	Thr	Pro	Leu	Val	Glu	Leu	Ser	Thr	Phe
			180						185					190	
Asp	Ser	Val	Ser	Ile	Leu	Val	Thr	Ile	Ser	Gly	Gly	Thr	Val	Ile	Val
		195						200					205		
Ile	Thr	Val	Phe	Ile	Ile	Ala	Val	Ser	Tyr	Ile	Tyr	Ile	Phe	Ile	Thr
	210					215					220				
Ile	Leu	Lys	Met	His	Ser	Thr	Gly	Cys	Arg	His	Lys	Ala	Phe	Phe	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Thr	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Thr
			245						250					255	
Phe	Ile	Tyr	Leu	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp	Gln	Asn	Lys
			260					265					270		
Val	Val	Ser	Val	Phe	Cys	Ile	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Thr	Asp	Ala	Leu	Lys	Arg	His
	290				295						300				
Ile	Gly	Arg	Lys	Thr	Cys	Ser	Trp	Arg	Asn	Leu	Leu	Cys	Cys		
305					310					315					

<210> 2143

<211> 320

<212> PRT

<213> Mus musculus

<400> 2143

Gly	Phe	Leu	Leu	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile	Leu
1				5					10					15	
Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Thr	Ile
			20					25					30		
Ile	Leu	Cys	Phe	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr	Ile
		35					40					45			
Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Tyr	Ser	Cys	Thr	Val	Thr
65					70					75					80
Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Leu	Glu	Arg	Ser	Thr	Thr	Ser	Tyr
			85						90					95	
Thr	Glu	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ala	Asp	Phe	Ile	Ala	Pro	Val
			100					105					110		
Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Cys	Asp	Pro	Phe	Met	Ala	Val
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys	Val	Gln
	130					135					140				
Leu	Val	Leu	Gly	Ser	Tyr	Val	Gly	Gly	Phe	Leu	Ser	Leu	Ile	Ile	Met
145					150					155					160
Ala	Tyr	Phe	Phe	Ser	Phe	Leu	Phe	Phe	Gly	Pro	Asn	Arg	Ile	Asn	His
			165						170					175	
Phe	Phe	Cys	Asn	Phe	Asp	Pro	Leu	Ala	Glu	Leu	Ser	Cys	Ser	Asp	Val
			180					185					190		
Ser	Val	Ser	Ile	Leu	Ile	Ser	Phe	Leu	Ala	Ala	Ser	Ile	Ala	Ile	Ile
		195					200					205			
Thr	Gly	Phe	Val	Ile	Ala	Phe	Ser	Tyr	Ser	Tyr	Ile	Leu	Ile	Thr	Ile
	210					215					220				
Leu	Lys	Met	His	Ser	Thr	Lys	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Glu	Thr	Ile	Thr	Phe
			245						250					255	

Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Gly	Gln	Asn	Lys	Val
			260					265					270		
Ala	Ser	Gln	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu	Asn	Leu	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Ser	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu	Lys	Arg	Gln	Leu
	290					295					300				
Asp	Met	Lys	Thr	Phe	Ser	Tyr	Asn	Asn	Leu	Leu	Phe	Cys	Thr	Thr	Ile
305					310					315					320

<210> 2144

<211> 336

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (205)...(236)

<223> Any amino acid

<400> 2144

Met	Ala	Leu	Ser	Asn	Ser	Ser	Trp	Arg	Gln	Pro	Gln	Pro	Pro	Phe	Phe
1				5					10					15	
Leu	Val	Gly	Val	Pro	Gly	Leu	Glu	Glu	Ser	Gln	His	Trp	Ile	Ala	Leu
			20					25					30		
Pro	Leu	Gly	Ile	Leu	Tyr	Leu	Phe	Ala	Leu	Val	Gly	Asn	Val	Thr	Ile
		35					40					45			
Ile	Phe	Ile	Ile	Trp	Thr	Asp	Ser	Ser	Leu	His	Gln	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Ala	Met	Leu	Ala	Ile	Asp	Leu	Val	Leu	Ala	Ser	Ser	Thr	
65				70					75					80	
Ala	Pro	Lys	Ala	Leu	Thr	Val	Leu	Leu	Ala	His	Ala	His	Glu	Ile	Gly
				85					90					95	
Tyr	Ile	Val	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Ala	Phe	Ser	Ser
			100					105					110		
Met	Glu	Ser	Gly	Ile	Leu	Val	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	His	Ser	Thr	Ile	Leu	His	Pro	Gly	Ile	Ile
	130					135						140			
Gly	Arg	Ile	Gly	Leu	Val	Val	Leu	Val	Arg	Gly	Leu	Val	Leu	Leu	Phe
145				150						155					160
Pro	Phe	Pro	Ile	Leu	Leu	Gln	Asn	Val	Val	Phe	Cys	Arg	Ala	Thr	Val
				165					170					175	
Ile	Ser	His	Ala	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Glu	Thr	Thr	Val	Asn	Arg	Ala	Tyr	Gly	Leu	Ser	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	210					215					220				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Gly	Ile	Ser
225					230					235					240
Tyr	Ala	Leu	Ile	Leu	Gln	Ala	Val	Leu	Lys	Val	Pro	Gly	Gly	Glu	Ala
				245					250					255	
Arg	Leu	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu
			260					265					270		
Ile	Phe	Tyr	Val	Pro	Gly	Met	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly
		275					280					285			
His	His	Val	Pro	His	His	Val	His	Val	Leu	Leu	Ala	Thr	Leu	Tyr	Leu
	290					295					300				

Leu	Val	Pro	Pro	Ala	Leu	Asn	Pro	Leu	Val	Tyr	Gly	Val	Lys	Thr	Arg
305					310					315					320
Gln	Ile	Arg	Gln	Arg	Val	Leu	Arg	Val	Phe	Tyr	Thr	Lys	Ala	Ser	Ile
				325					330					335	

<210> 2145  
 <211> 206  
 <212> PRT  
 <213> Mus musculus

<400> 2145

His	Ile	Phe	Thr	Ala	Met	Glu	Thr	Val	Val	Leu	Val	Ala	Met	Ala	Phe
1				5					10					15	
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Gln	Ile	Leu
			20					25					30		
Thr	Asn	Arg	Thr	Ile	Gly	Leu	Ile	Leu	Val	Val	Val	Phe	Gly	Val	Asn
			35				40					45			
Phe	Ile	Leu	Leu	Ile	Pro	Leu	Val	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe
	50					55					60				
Cys	Gly	His	His	Ile	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile
65				70						75					80
Ala	Arg	Leu	Ala	Cys	Ala	Asn	Ile	Lys	Val	Asn	Met	Ile	Phe	Gly	Leu
				85					90					95	
Ile	Leu	Ile	Ser	Met	Val	Leu	Ala	Asp	Val	Leu	Leu	Ile	Ala	Ile	Ser
			100					105					110		
Tyr	Met	Arg	Ile	Leu	Arg	Ala	Val	Phe	Cys	Leu	Pro	Ser	Arg	Asp	Ala
		115					120					125			
Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Gly	Ser	His	Ile	Cys	Val	Ile	Leu
	130					135					140				
Ala	Phe	Phe	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly
145					150					155					160
Arg	Asn	Val	Pro	Ala	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val
				165					170					175	
Val	Val	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys
			180					185					190		
Gln	Ile	Arg	Asp	Gln	Val	Leu	Ser	Ile	Phe	Trp	Lys	Lys	Thr		
		195					200					205			

<210> 2146  
 <211> 287  
 <212> PRT  
 <213> Mus musculus

<400> 2146

Met	Ile	Pro	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile	Leu	Ile
1				5					10					15	
Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile	Val	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Met
		35					40				45				
Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55				60					
Ser	Thr	Leu	Ser	Leu	Leu	Asp	Met	Thr	Phe	Val	Thr	Thr	Thr	Met	Pro
65					70					75					80
Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Thr
				85					90					95	
Gly	Cys	Trp	Leu	Gln	Met	Phe	Met	Phe	Gly	Gly	Leu	Gly	Ile	Thr	Glu



<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (71)...(117)  
<223> Any amino acid

<400> 2148

Met	Met	Glu	Tyr	Glu	Asn	Tyr	Thr	Phe	Asn	Ser	Asp	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Phe	Ser	Ser	Ser	Lys	Thr	Ser	Leu	Thr	Phe	Phe	Ser	Phe	Ile
			20					25					30		
Phe	Phe	Ile	Phe	Ile	Met	Ala	Ile	Thr	Glu	Asn	Ala	Leu	Met	Ile	Leu
		35					40					45			
Leu	Ile	His	Arg	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Met	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105						110	
Xaa	Xaa	Xaa	Xaa	Xaa	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Arg	Asp	Asn	Ser	Ser	Arg	Leu	Leu
	130					135					140				
Ala	Ala	Gly	Ser	Trp	Leu	Val	Gly	Ile	Leu	Asn	Ser	Ile	Val	His	Thr
145					150					155					160
Val	Phe	Ala	Leu	His	Phe	Pro	Phe	Cys	His	Ser	Arg	Ala	Ile	Asp	His
				165					170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ala	Met	Leu	Lys	Leu	Ser	Cys	Ile	Asp	Thr
			180					185					190		
Thr	His	Tyr	Glu	Arg	Gly	Val	Tyr	Val	Ser	Gly	Ile	Ile	Phe	Leu	Leu
		195					200					205			
Ile	Pro	Phe	Ser	Met	Ile	Ser	Ile	Ser	Tyr	Val	Gln	Ile	Leu	Leu	Thr
	210					215					220				
Val	Phe	Gln	Met	Gln	Ser	Ser	Gly	Ala	Arg	Gln	Lys	Ser	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Phe	His	Met	Val	Val	Val	Ile	Met	Tyr	Tyr	Gly	Pro	Phe	Ile
				245					250					255	
Phe	Thr	Tyr	Met	Arg	Pro	Arg	Ser	Tyr	His	Thr	Pro	Gly	Gln	Asp	Lys
			260					265					270		
Phe	Leu	Ala	Ile	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Thr	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Asp	Val	Leu	Met	Ala	Val	Lys	Asn	Ile
	290					295					300				
Val	Gln	Ser	Asn	Phe	Leu	Asn	Lys	Lys							
305					310										

<210> 2149  
<211> 135  
<212> PRT  
<213> Mus musculus

<400> 2149

Met	Trp	Met	Phe	Pro	Lys	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile
1				5					10					15	

Leu	Leu	Gly	Phe	Ser	Ser	Val	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile
			20					25				30			
Val	Phe	Leu	Leu	Val	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile
		35					40					45			
Ile	Met	Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Cys	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Tyr	Val	Thr	Thr	Thr
65					70					75					80
Met	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser
				85					90					95	
Phe	Val	Gly	Cys	Trp	Leu	Gln	Met	Tyr	Met	Phe	Ser	Ala	Leu	Gly	Ile
			100					105					110		
Ala	Glu	Ser	Ile	Leu	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr									
	130					135									

<210> 2150

<211> 216

<212> PRT

<213> Mus musculus

<400> 2150

Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Ser	Phe	Thr	Ala	Met	Glu	Ser
1				5					10				15		
Gly	Phe	Phe	Leu	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asp
			20					25				30			
Pro	Leu	Arg	His	Thr	Thr	Ile	Leu	Thr	Asn	Ser	Arg	Ile	Ala	Lys	Met
		35					40					45			
Gly	Ala	Val	Val	Val	Leu	Arg	Gly	Val	Gly	Phe	Phe	Ser	Pro	His	Pro
	50					55				60					
Ile	Leu	Leu	Lys	Gln	Leu	Pro	Tyr	Cys	Arg	Thr	Arg	Ile	Ile	Ala	His
65				70						75					80
Thr	Tyr	Cys	Glu	Phe	Ile	Ala	Val	Val	Lys	Leu	Ala	Cys	Val	Asp	Thr
				85					90					95	
Gly	Ala	Thr	Lys	Arg	Tyr	Ser	Leu	Ser	Val	Ala	Ser	Val	Ile	Gly	Ser
			100					105					110		
Cys	Asp	Gly	Phe	Phe	Ile	Ala	Leu	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Ala
		115					120				125				
Val	Phe	Arg	Leu	Pro	Ser	Arg	Glu	Ala	Ser	Leu	Lys	Ala	Leu	Gly	Thr
	130					135					140				
Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Val	Phe	Tyr	Ser	Thr	Ala	Val
145					150					155					160
Phe	Thr	Phe	Leu	Thr	His	Arg	Phe	Gly	His	Asn	Val	Ala	Pro	Gln	Ile
				165					170					175	
His	Ile	Phe	Ile	Ala	Asn	Met	Tyr	Leu	Leu	Val	Pro	Pro	Phe	Leu	Asn
			180					185					190		
Pro	Ile	Val	Tyr	Gly	Ile	Arg	Thr	Lys	Lys	Ile	Arg	Glu	Tyr	Val	Leu
		195					200					205			
Ser	Phe	Leu	Arg	Val	Lys	Phe	Ser								
	210					215									

<210> 2151

<211> 311

<212> PRT

<213> Mus musculus



<400> 2151

Met	Glu	Asn	Tyr	Thr	Arg	Val	Lys	Glu	Leu	Ile	Phe	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Ser	Gln	Glu	Val	Ser	Met	Val	Leu	Phe	Leu	Phe	Leu	Leu	Leu	Val
			20					25					30		
Tyr	Val	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr	Val	Thr
		35					40					45			
Cys	Glu	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg	Asn	Leu
	50					55					60				
Ser	Val	Ala	Asp	Ile	Cys	Phe	Ser	Ser	Ile	Thr	Ala	Pro	Lys	Val	Leu
65					70					75					80
Val	Asp	Leu	Leu	Ser	Asp	Arg	Lys	Thr	Ile	Ser	Phe	Asn	Gly	Cys	Leu
				85					90					95	
Thr	Gln	Met	Phe	Phe	His	Leu	Ile	Gly	Gly	Val	Asp	Val	Phe	Ser	
			100					105				110			
Leu	Ser	Val	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Lys	Pro	Leu
		115					120					125			
His	Tyr	Val	Thr	Ile	Met	Ser	Arg	Gly	Arg	Cys	Ile	Gly	Leu	Ile	Val
	130					135					140				
Ala	Ser	Trp	Val	Gly	Gly	Phe	Ala	His	Ser	Ile	Val	Gln	Ile	Ser	Leu
145				150						155					160
Leu	Leu	Thr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Thr	Phe	Tyr
				165					170					175	
Cys	Asp	Val	Pro	Gln	Val	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Ile	Phe	Val
			180					185					190		
Leu	Glu	Leu	Leu	Met	Ile	Ser	Asn	Asn	Gly	Met	Leu	Thr	Thr	Leu	Trp
		195					200					205			
Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Met	Val	Ile	Leu	Leu	Leu	Leu	Lys
	210					215					220				
Ser	Gln	Ser	Gly	Glu	Gly	Lys	Lys	Lys	Ala	Ile	Ser	Thr	Cys	Thr	Ser
225					230					235					240
His	Ile	Thr	Val	Ile	Thr	Leu	His	Phe	Val	Pro	Cys	Ile	Tyr	Val	Tyr
				245					250					255	
Ala	Arg	Pro	Phe	Thr	Ala	Leu	Pro	Thr	Asp	Lys	Ala	Ile	Ser	Val	Thr
			260					265					270		
Phe	Thr	Val	Ile	Ser	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Gln	Glu	Met	Lys	Ser	Ala	Met	Arg	Arg	Leu	Arg	Lys	Arg	Leu	Gly
	290					295					300				
Pro	Ser	Tyr	Trp	Ile	Glu	Arg									
305					310										

<210> 2152

<211> 311

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (186)...(186)

<223> Any amino acid

<221> VARIANT

<222> (187)...(193)

<223> Any amino acid

<400> 2152

Met Pro His Thr Asn Ser Thr Lys Ile Thr Glu Phe Ile Leu Leu Gly

1	5	10	15
Leu Thr Asp Arg Pro Glu Leu Gln Pro Leu Leu Phe Val Leu Phe Leu			
	20	25	30
Phe Ile Tyr Leu Val Thr Leu Leu Gly Asn Met Gly Leu Met Ala Leu			
	35	40	45
Ile Arg Leu Asp Ser Arg Leu His Lys Pro Met Tyr Phe Phe Leu Ser			
	50	55	60
Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Thr Ala Thr Pro Gln			
	65	70	75
Met Leu Thr Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Phe Ile Gly			
	85	90	95
Cys Phe Ile Gln Cys Tyr Leu Phe Ile Ala Leu Leu Leu Thr Glu Phe			
	100	105	110
Tyr Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn			
	115	120	125
Pro Leu Arg Tyr Ser Val Lys Met Ser Arg Arg Val Cys Ile Cys Leu			
	130	135	140
Ala Met Cys Pro Tyr Ile Tyr Gly Phe Ser Asp Gly Leu Phe Gln Thr			
	145	150	155
Ile Leu Thr Phe Ser Met Thr Phe Cys Lys Ser Asn Val Ile Asn His			
	165	170	175
Phe Tyr Cys Ala Asp Pro Pro Leu Ile Xaa Leu Xaa Xaa Xaa Xaa			
	180	185	190
Xaa Leu Ser Asn Ser Leu Thr Ile Val Leu Val Ser Tyr Ala Phe Ile			
	195	200	205
Ile Ala Ala Ile Leu Arg Ile Lys Ser Ala Glu Gly Arg Arg Lys Ala			
	210	215	220
Phe Ser Thr Cys Gly Ser His Met Met Ala Val Thr Leu Phe Tyr Gly			
	225	230	235
Thr Leu Phe Cys Met Tyr Val Arg Pro Pro Thr Asp Lys Thr Val Glu			
	245	250	255
Glu Ser Lys Ile Ala Val Phe Tyr Thr Phe Val Ser Pro Leu Leu			
	260	265	270
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu			
	275	280	285
Lys Thr Ile Leu Arg Gln Asn Val Ile Arg Thr Ala Leu Met Arg Pro			
	290	295	300
Pro Ser Asn Lys Leu His Gln			
305	310		

<210> 2153

<211> 242

<212> PRT

<213> Mus musculus

<400> 2153

Met Asp Gly Gly Asn Gln Ser Gly Asp Ser Glu Phe Leu Leu Leu Gly			
1	5	10	15
Leu Ser Glu Val Pro Glu His Gln Arg Ile Leu Phe Trp Thr Phe Leu			
	20	25	30
Ser Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala			
	35	40	45
Ile Gly Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala			
	50	55	60
Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys			
	65	70	75
Met Leu Val Ser Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Pro Gly			
	85	90	95

Cys	Leu	Thr	Gln	Leu	Phe	Phe	Leu	Val	Ser	Leu	Val	Ala	Leu	Asp	Asn
			100					105					110		
Leu	Ile	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ala	Met	Ser	Pro	Lys	Leu	Cys	Ile	Leu	Leu
	130						135				140				
Leu	Ile	Leu	Cys	Trp	Ala	Leu	Ser	Ile	Leu	Tyr	Gly	Leu	Ile	His	Thr
145					150					155					160
Leu	Leu	Met	Thr	Arg	Val	Thr	Phe	Cys	Gly	Ser	Arg	Lys	Ile	His	Tyr
				165					170					175	
Ile	Phe	Cys	Glu	Met	Tyr	Val	Leu	Leu	Arg	Leu	Ala	Cys	Ser	Asn	Thr
			180					185					190		
His	Ile	Asn	His	Met	Met	Leu	Ile	Ala	Thr	Gly	Cys	Phe	Val	Phe	Leu
		195					200					205			
Val	Pro	Phe	Gly	Phe	Met	Ile	Met	Ser	Tyr	Ile	Cys	Ile	Val	Arg	Ala
	210					215					220				
Ile	Leu	Lys	Ile	Pro	Ser	Ala	Ser	Asn	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Trp	Cys														

<210> 2154  
 <211> 351  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (231)...(232)  
 <223> Any amino acid

<221> VARIANT  
 <222> (234)...(278)  
 <223> Any amino acid

<400> 2154															
Met	Asp	Ile	Pro	Ser	Asn	Asn	Thr	Ile	Pro	Arg	Gly	Phe	Leu	Leu	Gln
1				5					10					15	
Gly	Phe	Phe	Glu	Phe	Pro	His	Leu	Lys	Pro	Leu	Leu	Phe	Leu	Val	Leu
			20					25					30		
Leu	Ala	Val	His	Leu	Ala	Thr	Leu	Ser	Gly	Asn	Leu	Leu	Ile	Leu	Val
		35				40					45				
Ala	Val	Ile	Ser	Val	Pro	Ser	Arg	Pro	Pro	Met	Leu	Leu	Phe	Leu	Cys
	50					55				60					
Gln	Leu	Ser	Ala	Ile	Glu	Leu	Cys	Tyr	Thr	Leu	Val	Val	Val	Pro	Arg
65					70					75					80
Ser	Leu	Ala	Asp	Leu	Ser	Met	Pro	Gly	His	Gly	Arg	Gly	Ser	Pro	Ile
			85						90					95	
Ser	Phe	Leu	Gly	Cys	Ala	Val	Gln	Met	Gln	Met	Phe	Val	Ala	Leu	Gly
			100					105					110		
Gly	Ala	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Ala	Ser	Ile	Val	Thr	Pro	Gly	Leu
	130					135					140				
Cys	Ala	Arg	Leu	Ala	Leu	Ala	Cys	Cys	Leu	Gly	Gly	Leu	Ala	Val	Ser
145					150					155					160
Val	Gly	Leu	Thr	Val	Ala	Val	Phe	His	Leu	Pro	Phe	Cys	Gly	Ser	Arg
				165					170					175	

Leu	Leu	Val	His	Phe	Phe	Cys	Asp	Ile	Thr	Ala	Leu	Leu	His	Leu	Ala	
			180					185					190			
Cys	Thr	Arg	Ser	Tyr	Val	Asp	Glu	Leu	Pro	Leu	Leu	Gly	Ala	Cys	Leu	
		195					200					205				
Val	Leu	Leu	Leu	Leu	Pro	Ser	Met	Leu	Ile	Leu	Thr	Ser	Tyr	Gly	Ala	
	210					215					220					
Ile	Ala	Ser	Ala	Leu	Arg	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
225					230				235						240	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
				245					250						255	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
				260					265						270	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Ala	Ser	His	Leu	Ala	Val	Thr	Phe	Leu	
		275					280					285				
His	Tyr	Gly	Cys	Ala	Thr	Phe	Met	Tyr	Val	Arg	Pro	Lys	Ser	Ser	Tyr	
	290					295					300					
Ser	Pro	Arg	Leu	Asp	Arg	Thr	Leu	Ala	Leu	Val	Tyr	Thr	Asn	Val	Thr	
305					310					315					320	
Pro	Leu	Leu	Tyr	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Ile	Thr	
				325					330					335		
Ser	Ala	Ile	His	Arg	Val	Leu	Gly	Phe	Arg	Gly	Ser	Gly	Ser	Val		
			340					345					350			

<210> 2155

<211> 304

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (199)...(222)

<223> Any amino acid

<400> 2155

Met	Arg	Asn	His	Thr	Val	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser	
1				5					10					15		
Asp	Thr	Pro	Glu	Leu	Gln	Leu	Val	Leu	Phe	Ile	Phe	Leu	Leu	Ile	Thr	
			20					25					30			
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu	
		35				40						45				
Leu	Asp	Ser	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	
	50					55					60					
Ser	Phe	Leu	Glu	Ile	Thr	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu	
65					70				75						80	
Gly	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu	
				85					90					95		
Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Ser	Met	Gly	Val	Ser	Glu	Phe	Phe	Leu	
			100					105					110			
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115				120						125				
His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu	
	130					135					140					
Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Thr	Ile	Phe	Pro	Pro	Leu	Met	Leu	
145					150					155					160	
Val	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Ser	
				165					170					175		
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Pro	Arg	Ser	
			180					185					190			



His	Leu	Thr	Ala	Val	Ala	Leu	Leu	Phe	Gly	Thr	Leu	Ile	Phe	Met	Tyr
			260					265					270		
Ile	Arg	Ser	Gly	Ser	Lys	Lys	Ser	Leu	Glu	Glu	Asp	Lys	Val	Val	Ser
		275					280					285			
Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	Ser
	290					295					300				
Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Lys	Lys	Val	Thr	Gly	Lys
305					310					315					320
Trp	Gln	Val	Ser	His	Ser	Ile	Gln	Tyr							
				325											

<210> 2157

<211> 302

<212> PRT

<213> Mus musculus

<220>

<221> CONFLICT

<222> (95)...(104)

<223> Any amino acid

<400> 2157

Met	Lys	Asn	Arg	Thr	Ser	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asn	Asp	Pro	Lys	Leu	Asn	Ile	Leu	Ile	Phe	Val	Phe	Leu	Phe	Ile	Thr
			20					25					30		
Tyr	Ile	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
		35				40						45			
Ile	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Val	Ser	Ile	Val	Thr	Gly	Asp	Met	Thr	Ile	Ser	Tyr	Ser	Ser	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr
			100					105					110		
Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Ser	Arg
		115				120						125			
Val	Cys	Met	Gln	Leu	Ile	Val	Ser	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Ile
	130					135					140				
Ile	Phe	Pro	Pro	Val	Ile	Met	Gly	Leu	Gln	Leu	Asp	Phe	Cys	Asp	Ser
145					150					155					160
Asn	Ile	Ile	Asp	His	Phe	Thr	Cys	Asp	Ser	Ser	Pro	Leu	Leu	Leu	Ile
				165					170					175	
Ser	Cys	Thr	Asp	Thr	Ala	Phe	Leu	Glu	Leu	Phe	Ala	Phe	Phe	Leu	Ala
			180					185					190		
Val	Leu	Thr	Leu	Ile	Val	Thr	Leu	Thr	Leu	Val	Ile	Leu	Ser	Tyr	Ser
		195					200					205			
Phe	Ile	Leu	Arg	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gln	Arg	Lys
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Ser
225					230					235					240
Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr	Val	Lys	Thr	Ser	Ala	Lys	Glu	Gly
			245						250					255	
Val	Thr	Leu	Thr	Lys	Gly	Ile	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro
			260					265					270		
Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Glu
		275					280					285			

Ala Phe Lys Thr Leu Ile Lys Lys Arg Phe Ser Asn Lys Ile  
 290 295 300

<210> 2158  
 <211> 241  
 <212> PRT  
 <213> Mus musculus  
 <220>  
 <221> VARIANT  
 <222> (116)...(122)  
 <223> Any amino acid

<400> 2158  
 Met Thr Ile His Asn Asn Arg Ser Val Ser His Pro Asp Thr Phe Phe  
 1 5 10 15  
 Leu Ile Gly Ile Pro Gly Leu Glu Glu Ile His Ala Trp Ile Ser Leu  
 20 25 30  
 Pro Phe Cys Cys Ile Tyr Leu Val Ala Leu Met Val Asn Thr Met Ile  
 35 40 45  
 Leu Val Val Ile Lys Thr Glu Arg Ser Leu Arg Glu Pro Met Phe Tyr  
 50 55 60  
 Phe Leu Ala Ile Leu Ser Ser Val Asp Leu Ala Leu Ser Thr Thr Ser  
 65 70 75 80  
 Val Pro Arg Met Leu Gly Ile Phe Trp Phe Asp Ala His Glu Ile Asn  
 85 90 95  
 Phe Gly Gly Cys Val Ala Gln Met Phe Leu Ile His Ala Phe Thr Gly  
 100 105 110  
 Met Glu Ala Xaa Xaa Xaa Xaa Xaa Xaa Asn Ile His Ile Asn Ala  
 115 120 125  
 Val Tyr Gly Leu Phe Val Val Ser Leu Phe Leu Leu Asn Leu Val Leu  
 130 135 140  
 Ile Gly Ile Ser Tyr Gly Tyr Ile Leu Arg Ala Val Phe Arg Leu Pro  
 145 150 155 160  
 Ser Gln Asp Ala Arg Leu Lys Ala Leu Ser Thr Cys Gly Ser His Val  
 165 170 175  
 Ala Val Leu Cys Val Phe Tyr Ile Pro Ser Val Phe Ser Phe Leu Thr  
 180 185 190  
 His Arg Phe Gly His Asn Ile Pro His Tyr Ile His Ile Leu Val Ala  
 195 200 205  
 Asn Leu Tyr Leu Val Ile Pro Pro Ser Leu Asn Pro Ile Ile Tyr Ser  
 210 215 220  
 Val Arg Thr Lys Gln Ile Arg Glu His Val Leu His Ile Phe Thr Lys  
 225 230 235 240  
 Arg

<210> 2159  
 <211> 240  
 <212> PRT  
 <213> Mus musculus

<400> 2159  
 Leu Ser Phe Ser Ser Leu Pro Thr Met Leu Lys Ile Phe Phe Phe Asn  
 1 5 10 15  
 Ala Met Ala Ile Ser Pro Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile  
 20 25 30

His	Gly	Phe	Thr	Val	Met	Glu	Ser	Ser	Val	Leu	Leu	Ile	Met	Ser	Leu	
		35					40					45				
Asp	Arg	Phe	Leu	Ala	Ile	His	Asn	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Leu	
	50					55					60					
Asn	Gly	Arg	Arg	Val	Ala	Lys	Ile	Gly	Leu	Ile	Leu	Ala	Phe	Arg	Ser	
65					70					75					80	
Thr	Val	Leu	Val	Leu	Pro	Phe	Pro	Phe	Thr	Leu	Arg	Lys	Leu	Lys	Tyr	
				85					90					95		
Cys	His	Lys	Asn	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	
			100					105					110			
Met	Lys	Leu	Ala	Cys	Ser	Asp	Asn	Lys	Ile	Asn	Phe	Ile	Tyr	Gly	Phe	
		115					120					125				
Phe	Val	Ala	Leu	Cys	Thr	Met	Leu	Asp	Phe	Ala	Leu	Ile	Leu	Met	Ser	
	130						135				140					
Tyr	Val	Leu	Ile	Leu	Lys	Thr	Val	Leu	Ser	Ile	Ala	Ser	Leu	Ala	Glu	
145					150					155					160	
Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Cys	Ala	Val	Leu	
				165					170					175		
Ile	Phe	Tyr	Val	Pro	Ile	Ile	Thr	Leu	Ala	Ala	Ile	His	Arg	Phe	Ala	
			180					185					190			
Lys	His	Lys	Ser	Pro	Leu	Leu	Val	Ile	Leu	Ile	Ala	Asp	Met	Phe	Leu	
		195					200					205				
Leu	Val	Pro	Pro	Leu	Met	Asn	Pro	Ile	Val	Tyr	Cys	Ile	Lys	Thr	Arg	
	210					215					220					
Gln	Ile	Arg	Glu	Lys	Val	Leu	Gly	Lys	Leu	Val	Asn	Leu	Cys	Val	Arg	
225					230					235					240	

<210> 2160

<211> 281

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (146)...(248)

<223> Any amino acid

<400> 2160

Met	Glu	Asn	Arg	Thr	Val	Pro	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser	
1				5					10					15		
Asp	Asp	Pro	Gly	Leu	Gln	Ile	Val	Ile	Phe	Leu	Phe	Leu	Ile	Leu	Met	
			20					25					30			
Tyr	Ile	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	
		35				40						45				
Val	Asp	Pro	His	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	
	50					55				60						
Ser	Val	Leu	Glu	Ile	Thr	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu	
65					70					75					80	
Ser	Thr	Ile	Val	Thr	Arg	Asp	Lys	Thr	Ile	Ser	Tyr	Asn	Ser	Cys	Thr	
				85					90					95		
Ala	Gln	Leu	Phe	Phe	Phe	Ile	Phe	Leu	Gly	Ile	Thr	Glu	Phe	Tyr	Leu	
			100					105					110			
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115				120						125				
His	Tyr	Thr	Thr	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Arg	Ser	Phe	
	130					135					140					
Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
145					150					155					160	



Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165					170					175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				195					200					205		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				210					215					220		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				225					230					235		240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Pro	Met	Met	Asn	Pro	Phe	Ile	
				245					250					255		
Tyr	Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Ala	Ile	
			260					265						270		
Gln	Lys	Val	Val	Leu	Phe	Ser	Gly	Lys								
		275					280									

<210> 2161  
 <211> 140  
 <212> PRT  
 <213> Mus musculus

<400> 2161

Met	Ser	Leu	Tyr	Asn	Ile	Thr	Glu	Val	His	Pro	Ser	Ser	Phe	Leu	Leu	
1				5					10					15		
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Tyr	Ala	His	Ile	Trp	Ile	Gly	Phe	Pro	
			20					25					30			
Phe	Cys	Phe	Leu	Tyr	Leu	Ile	Ala	Ile	Leu	Gly	Asn	Ala	Ala	Val	Leu	
		35					40					45				
Phe	Val	Ile	Gln	Thr	Glu	His	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe	
	50					55					60					
Leu	Ala	Met	Leu	Asp	Ser	Ile	Asp	Leu	Gly	Leu	Thr	Thr	Ala	Thr	Ile	
65				70					75						80	
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg	Glu	Ile	Ser	Phe	
			85					90						95		
Gly	Gly	Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	His	Phe	Phe	Thr	Val	Met	
		100					105						110			
Glu	Ser	Ile	Met	Leu	Leu	Ala	Met	Gly	Phe	Asp	Arg	Tyr	Val	Ala	Ile	
		115				120						125				
Cys	Lys	Pro	Leu	Gln	Tyr	Thr	Val	Ile	Leu	Thr	Asn					
	130					135					140					

<210> 2162  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2162

Met	Gly	Glu	Asp	Asn	Arg	Thr	Ser	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly	
1				5					10					15		
Leu	Ser	Gln	Asp	Pro	Gln	Thr	Gln	Val	Leu	Leu	Phe	Phe	Leu	Phe	Leu	
		20						25					30			
Phe	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu	
		35				40						45				
Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Arg	Asn	Leu	
	50					55					60					
Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Thr	Thr	Val	Pro	Gln	Val	Leu	



		115				120				125					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	130					135				140					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155					160
Xaa	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Lys
				165					170					175	
Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Thr	His	Trp	Val	Cys	Val	Gln	Leu
			180					185					190		
Ala	Ala	Gly	Ser	Trp	Ala	Ser	Gly	Ala	Leu	Val	Ser	Leu	Val	Asp	Thr
		195					200					205			
Thr	Phe	Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Asn	Asn	Val	Ile	Asn	His
	210					215					220				
Phe	Phe	Cys	Glu	Pro	Pro	Ala	Leu	Leu	Lys	Leu	Ala	Ser	Ala	Asp	Thr
225					230					235					240
Tyr	Ser	Thr	Glu	Met	Ala	Ile	Phe	Ala	Met	Gly	Val	Val	Ile	Leu	Leu
				245					250					255	
Ala	Pro	Val	Ser	Leu	Ile	Leu	Thr	Ser	Tyr	Trp	Asn	Ile	Ile	Ser	Thr
			260					265					270		
Val	Ile	Gln	Met	Gln	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Val	Phe	Ser	Thr
		275					280					285			
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Ser	Ala	Ile
	290					295				300					
Phe	Ala	Tyr	Met	Arg	Pro	Asn	Ser	Lys	Ile	Met	Asn	Glu	Lys	Asp	Lys
305					310					315					320
Met	Ile	Ser	Val	Phe	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Ile
				325					330					335	
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ile
			340					345					350		
Thr	Leu	Lys													
		355													

<210> 2164  
 <211> 193  
 <212> PRT  
 <213> Mus musculus

<400> 2164

Asp	His	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Ala	Thr	Val	Leu
1				5					10					15	
Thr	Asn	Ala	Arg	Ile	Val	Ala	Met	Gly	Leu	Gly	Thr	Val	Leu	Arg	Ser
		20						25					30		
Phe	Val	Leu	Ile	Val	Val	Phe	Pro	Val	Leu	Leu	His	Arg	Leu	Pro	Phe
		35				40					45				
Cys	His	Pro	Gln	Asn	Ile	Leu	Ser	His	Ala	Tyr	Cys	Leu	His	Val	Asp
	50					55				60					
Met	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Val	Ser	Leu	Asn	Ser	His	Tyr	Gly
65					70					75					80
Leu	Ser	Ile	Val	Leu	Leu	Thr	Phe	Gly	Leu	Asp	Ser	Ala	Leu	Ile	Leu
			85					90						95	
Ile	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg
			100					105					110		
Glu	Glu	Arg	Leu	Lys	Thr	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Leu	Ala
		115					120					125			
Val	Leu	Ile	Phe	Tyr	Val	Pro	Met	Val	Ser	Val	Ser	Ile	Val	His	Arg
	130					135					140				
Phe	Gly	Ala	Gly	Leu	Pro	His	Ala	Val	His	Ile	Leu	Met	Ser	Ile	Leu
145					150					155					160

Tyr Leu Phe Val Pro Pro Met Leu Asn Pro Ile Ile Tyr Ser Ile Lys  
                   165                  170                  175  
 Thr Lys Glu Ile Arg Arg Arg Leu Leu Lys Met Leu Phe Arg Val Lys  
                   180                  185                  190  
 Leu

<210> 2165  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2165  
 Leu Leu Val Ser Leu Glu Gln Arg Ile Met Lys Phe Leu Thr Gly Ile  
   1                  5                  10                  15  
 Pro Gly Leu Glu Thr Gln His Gly Trp Leu Ser Ile Pro Ile Phe Ile  
                   20                  25                  30  
 Met Tyr Met Val Ala Ile Val Gly His Ser Leu Ile Met Ala Ala Val  
                   35                  40                  45  
 Gln Gln Val Ser Val Phe His Glu Pro Met Tyr Leu Phe Phe Tyr Met  
   50                  55                  60  
 Leu Ala Ile Asn Glu Val Gly Val Ser Glu Ser Thr Met Pro Thr Val  
  65                  70                  75                  80  
 Arg Ser Ser Leu Trp Phe Asp Ala Asn Arg Ile Asp Leu Asp Gly Cys  
                   85                  90                  95  
 Leu Ala Gln Met Leu Phe Ile His Thr Phe Ser Gly Met Gly Ser Gly  
                   100                  105                  110  
 Val Leu Leu Thr Met Ser Tyr Glu Asp Phe Val Thr Ile Tyr Asn Pro  
  115                  120                  125  
 Leu Arg His Thr Ala Phe Leu Thr Leu Pro Arg Ile Ile Ser Met Gly  
  130                  135                  140  
 Leu Gly Ile Thr Leu Lys Ser Val Thr Leu Met Ala Pro Leu Gln Ile  
  145                  150                  155                  160  
 Leu Leu Lys Gln Arg Pro Tyr Cys His Ile Asn Ile Leu Ser His Ser  
                   165                  170                  175  
 Tyr Gly Leu His Ala Asp Leu Ile Gln Leu Pro Cys Ala Asp Thr Arg  
                   180                  185                  190  
 Leu Asn Ser Ile Leu Arg Leu Thr Ile Val Leu Ala Thr Phe Gly Leu  
                   195                  200                  205  
 Asp Ser Leu Phe Ile Val Val Ser Tyr Gly Leu Ile Leu Tyr Thr Val  
  210                  215                  220  
 Met Gly Ile Ala Ser Gly Glu Gly Arg Lys Lys Ala Leu Asn Thr Cys  
  225                  230                  235                  240  
 Val Ser His Ile Cys Ala Val Leu Ile Tyr Tyr Val Pro Met Ile Gly  
                   245                  250                  255  
 Val Ser Met Met His Arg Val Ala Lys His Ala Ser Pro Val Val His  
                   260                  265                  270  
 Thr Leu Met Leu Ser Ile Tyr Leu Phe Val Pro Pro Val Leu Asn Pro  
                   275                  280                  285  
 Ile Ile Tyr Ser Val Lys Thr Arg Pro Ile Gln Gln Gly Ile Ala Asn  
  290                  295                  300  
 Leu Phe Ser Cys Lys Lys Gly Ser Ile  
  305                  310

<210> 2166  
 <211> 193  
 <212> PRT

<213> Mus musculus

<400> 2166

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Arg Tyr Val Ala Ile Cys Asp Pro Leu Arg His Ala Ser Ile Phe Thr
1      5      10      15
Gln Arg Leu Leu Thr Gln Ile Gly Val Gly Val Thr Leu Arg Ala Ala
20      25      30
Leu Phe Val Ala Pro Cys Leu Phe Leu Ile Lys Cys Arg Leu Lys Phe
35      40      45
Tyr Trp Thr Thr Val Val Ser His Ser Tyr Cys Glu His Met Ala Ile
50      55      60
Val Lys Leu Ala Ala Glu Asp Val His Val Asn Lys Ile Tyr Gly Leu
65      70      75      80
Phe Val Ala Phe Ser Ile Leu Gly Leu Asp Ile Ile Phe Ile Thr Leu
85      90      95
Ser Tyr Ile Arg Ile Phe Ile Thr Val Phe Lys Leu Pro Gln Lys Glu
100     105     110
Ala Arg Leu Lys Ala Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe
115     120     125
Leu Glu Phe Tyr Leu Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe
130     135     140
Gly Tyr His Val Pro Ser Tyr Ile His Ile Leu Leu Ser Asn Leu Tyr
145     150     155     160
Leu Leu Val Pro Pro Leu Leu Asn Pro Ile Val Tyr Gly Val Lys Thr
165     170     175
Lys Gln Ile Arg Asp Gln Val Ser Lys Ile Leu Tyr Cys Asn Tyr Ser
180     185     190
Tyr
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<210> 2167

<211> 218

<212> PRT

<213> Mus musculus

<400> 2167

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Pro Ile Thr Lys Val Ile Tyr Ala Ser Asn Leu Pro Phe Val Leu Ser
1      5      10      15
Asn Phe Leu Leu Gly Ala Asn Lys Ile Cys Phe Glu Thr Cys Leu Leu
20      25      30
Lys Met Phe Ser Ile His Ser Phe Ser Ile Met Glu Ser Gly Val Leu
35      40      45
Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Lys Pro Leu Arg
50      55      60
Tyr Pro Val Lys Leu Thr Leu Pro Arg Ile Ala Gly Thr Arg Val Thr
65      70      75      80
Leu Gly Leu Lys Ser Leu Leu Leu Met Phe Leu Leu Pro Phe Leu Leu
85      90      95
Lys Arg Leu Pro Phe Cys Gly His Asn Val Leu Ser His Ser Tyr Cys
100     105     110
Leu His Ser Asp Leu Ile Gln Leu Pro Cys Gly Asp Thr Arg Pro Asn
115     120     125
Ser Ile Leu Gly Leu Arg Ile Val Thr Ser Thr Phe Gly Leu Asp Ser
130     135     140
Leu Leu Ile Val Val Pro Tyr Val Leu Ile Leu Ser Met Val Ser Leu
145     150     155     160
Phe Arg Leu Val Leu Val Val Asp Arg Arg Gly Glu Lys Glu His Ala
165     170     175
```

Phe	Met	Asn	Glu	Leu	Lys	Ile	Ser	Leu	Glu	Lys	Tyr	Leu	Pro	Ile	Leu
			180					185					190		
Pro	Val	Gln	Val	Ala	Ser	Val	Val	Leu	Tyr	Trp	Pro	Arg	Gln	His	Ser
		195					200					205			
Ala	Arg	Lys	Val	Val	Ser	Asn	Leu	Met	Thr						
	210					215									

<210> 2168  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2168

Met	Pro	Ile	Phe	Tyr	Asn	Ser	Thr	Ser	Pro	Thr	Phe	Leu	Leu	Thr	Gly
1			5					10					15		
Val	Pro	Gly	Leu	Glu	Trp	Ala	His	Pro	Trp	Ile	Ser	Ile	Pro	Phe	Cys
		20						25				30			
Cys	Leu	Tyr	Phe	Thr	Ala	Leu	Ser	Gly	Asn	Ser	Leu	Ile	Leu	Phe	Leu
		35					40				45				
Val	Leu	Thr	Glu	Pro	Thr	Leu	Gln	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55					60				
Met	Leu	Ser	Ser	Thr	Asp	Ile	Gly	Leu	Cys	Ile	Ser	Thr	Ile	Val	Thr
65				70					75					80	
Val	Leu	Gly	Ile	Phe	Trp	Leu	Asn	Ala	Arg	Glu	Ile	Ser	Phe	Ser	Ala
			85					90					95		
Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	His	Leu	Phe	Thr	Phe	Met	Glu	Ser
			100					105					110		
Ser	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Ser	Asn
	115						120					125			
Pro	Arg	Tyr	Ala	Ala	Ile	Leu	Thr	His	Ala	Arg	Ile	Ala	Gln	Ile	Gly
	130					135					140				
Leu	Ala	Ile	Ile	Thr	Lys	Ala	Thr	Val	Ile	Leu	Thr	Pro	Pro	Val	Leu
145					150					155				160	
Leu	Leu	Lys	Arg	Leu	Ser	Phe	Cys	Arg	Ser	Arg	Val	Leu	His	His	Ser
			165					170					175		
Tyr	Cys	Phe	His	Pro	Asp	Val	Met	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Lys
		180						185					190		
Ile	Asn	Ser	Ala	Phe	Gly	Leu	Thr	Ala	Ile	Ile	Ser	Thr	Ala	Gly	Val
	195					200						205			
Asp	Ser	Ile	Phe	Ile	Leu	Leu	Ser	Tyr	Ala	Leu	Ile	Ile	Arg	Ser	Val
	210					215					220				
Leu	Ser	Ile	Ala	Ser	Pro	Arg	Glu	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys
225					230				235					240	
Ile	Ser	His	Val	Thr	Ala	Val	Ala	Ile	Phe	Tyr	Ile	Pro	Leu	Ile	Ser
			245						250					255	
Leu	Ser	Phe	Val	His	Arg	Phe	Gly	Lys	His	Ala	Leu	Pro	Tyr	Val	Pro
		260					265					270			
Thr	Leu	Ile	Ala	Asn	Val	Tyr	Leu	Leu	Ile	Pro	Pro	Val	Met	Asn	Pro
		275					280					285			
Ile	Ile	Tyr	Ser	Val	Lys	Gln	Ser	Ser	Arg	Glu	Leu	Phe	Ser	Asp	Ser
	290					295					300				

Tyr  
 305

<210> 2169  
 <211> 233  
 <212> PRT

<213> Mus musculus

<400> 2169

Thr	Ile	Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Ser	Phe	Arg	Val	Ile
1				5					10					15	
Leu	Phe	Gly	Ala	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Asn	Phe	Thr
			20					25					30		
Gly	Met	Glu	Ser	Ala	Val	Leu	Leu	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		35					40					45			
Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Thr	Ile	Leu	Thr	Asn	Lys	Ala
		50				55					60				
Val	Phe	Met	Ile	Gly	Leu	Gly	Val	Leu	Val	Arg	Ser	Phe	Leu	Ser	Val
65					70					75					80
Ile	Pro	Phe	Val	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Asn	Asn
				85					90					95	
Val	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Arg	Leu	Ser
			100					105					110		
Cys	Ala	Asn	Ile	Lys	Val	Asn	Ile	Ile	Tyr	Gly	Leu	Gly	Ala	Ile	Ser
		115					120					125			
Ile	Leu	Phe	Phe	Asp	Ile	Ile	Ala	Ile	Ala	Leu	Ser	Tyr	Ala	Gln	Ile
	130					135						140			
Leu	Arg	Ala	Val	Phe	Arg	Leu	Pro	Ser	Arg	Glu	Ala	Arg	Ile	Lys	Ser
145					150					155					160
Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Ala	Phe	Tyr	Thr
			165						170					175	
Pro	Ala	Leu	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly	Arg	Asn	Val	Pro
			180					185					190		
Arg	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro
	195						200					205			
Met	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Tyr	Asp
	210					215						220			
Arg	Val	Lys	Lys	Ile	Phe	Leu	Gln	Lys							
225					230										

<210> 2170

<211> 195

<212> PRT

<213> Mus musculus

<400> 2170

Met	Phe	Pro	Leu	Asn	Asp	Thr	Gln	Thr	Leu	Lys	Phe	Leu	Leu	Ile	Gly
1				5					10					15	
Ile	Pro	Gly	Leu	Gln	Lys	Ser	His	Ile	Trp	Val	Ser	Ile	Pro	Phe	Pro
			20					25					30		
Phe	Val	Tyr	Leu	Leu	Ser	Phe	Leu	Gly	Asn	Val	Ile	Val	Leu	Phe	Phe
		35					40					45			
Ile	Lys	Thr	Glu	Gln	Ser	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Met	Leu	Ser	Ile	Ser	Asp	Leu	Gly	Leu	Ser	Leu	Ser	Ser	Leu	Pro	Thr
65					70					75					80
Thr	Leu	Gly	Leu	Phe	Leu	Leu	Gly	Ile	His	Glu	Ile	His	Ala	Ala	Ala
				85					90					95	
Cys	Phe	Ala	Gln	Glu	Phe	Phe	Ile	His	Leu	Phe	Thr	Val	Thr	Glu	Ala
		100						105					110		
Ser	Val	Leu	Ser	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	His	Ser
		115					120					125			
Pro	Leu	Lys	Tyr	Ser	Thr	Ile	Leu	Thr	Ser	Ser	Arg	Val	Ile	Lys	Ile
	130					135					140				

Gly	Val	Ser	Leu	Thr	Ser	Lys	Asn	Val	Leu	Phe	Ile	Leu	Pro	Leu	Pro
145					150					155					160
Phe	Leu	Leu	Gln	Arg	Leu	Asn	Tyr	Cys	His	Asn	Leu	Leu	Ser	His	Ser
			165						170					175	
Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Cys	Ser	Asp	Asn	Ser
			180					185					190		
Val	Val	Ser													
		195													

<210> 2171  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<400> 2171															
Leu	Ser	Ile	Asn	Tyr	Phe	Phe	Trp	Pro	Gln	Ala	Ser	Leu	Phe	Ile	Phe
1				5					10					15	
Ile	Phe	Ile	Phe	Ile	Phe	Ile	Asn	Asn	Arg	Glu	Glu	Met	Ser	Pro	Leu
			20				25						30		
Pro	Gln	Pro	Lys	Thr	Cys	Leu	Leu	Arg	Gly	Gly	Ala	Ser	Cys	Ser	Ile
		35					40					45			
Ile	Leu	Pro	Cys	Leu	Leu	Leu	Glu	Pro	Ala	Ala	Leu	Arg	Phe	Arg	Ser
	50					55					60				
His	His	Val	Ile	Thr	Leu	Leu	Leu	Asp	Ser	Lys	Ile	Ile	Trp	Gln	Asn
65					70				75						80
Trp	Ala	Pro	Pro	Pro	Ser	Phe	Ile	Thr	Glu	Cys	Arg	Asn	Ser	Lys	Asn
				85					90					95	
Thr	Leu	Ser	Arg	Glu	Leu	Cys	Leu	Gly	Ser	Phe	Leu	Ile	Ser	Arg	Ser
			100					105					110		
Pro	Ala	Gln	Pro	Leu	Phe	Ser	Ser	Arg	Phe	Pro	Lys	Cys	Leu	Thr	Arg
		115					120					125			
Leu	Glu	Pro	Arg	Leu	Ser	Thr	Gly	Gln	Thr	Gln	His	Asn	Arg	Ile	Asn
	130					135					140				
Val	Val	Tyr	Gly	Leu	Cys	Ala	Ala	Leu	Ser	Thr	Met	Leu	Asp	Leu	Val
145					150					155					160
Phe	Ile	Ile	Phe	Ser	Tyr	Ile	Met	Ile	Leu	Lys	Thr	Val	Leu	Gly	Ile
			165						170					175	
Gly	Thr	Pro	Arg	Glu	Gln	Phe	Lys	Ala	Leu	Asn	Thr	Cys	Phe	Ser	His
			180					185					190		
Ile	Cys	Pro	Val	Leu	Ile	Phe	Tyr	Val	Pro	Met	Leu	Ser	Ala	Ala	Met
		195					200					205			
Leu	His	His	Phe	Ala	Lys	Asn	Val	Phe	Pro	Leu	Thr	His	Ile	Leu	Met
	210					215					220				
Ala	Asp	Val	Phe	Leu	Leu	Val	Pro	Pro	Leu	Met	Asn	Pro	Ile	Val	Tyr
225					230					235					240
Cys	Val	Lys	Thr	Cys	Gln	Ile	Arg	Glu	Lys	Ile	Leu	Arg	Lys	Leu	Cys
				245					250					255	
Ser	Lys	Lys	Lys	Leu	Ile	Gln	Gly	Arg	Arg	Lys	Gln	Ile	Lys	Val	
			260					265					270		

<210> 2172  
 <211> 285  
 <212> PRT  
 <213> Mus musculus

<400> 2172															
Met	Thr	Leu	Ser	Leu	Met	Leu	Ala	Ser	Arg	Asn	Ser	Ser	Ser	His	Ser



1				5					10					15		
Thr	Phe	Phe	Ile	Leu	Leu	Ala	Ile	Pro	Gly	Leu	Glu	Asn	Tyr	Gln	Phe	
			20					25					30			
Val	Val	Phe	Leu	Phe	Cys	Val	Met	Tyr	Ile	Val	Ala	Val	Thr	Gly	Asn	
		35					40					45				
Thr	Thr	Ile	Leu	His	Ile	Ile	His	Ile	Asp	His	Thr	Leu	His	Glu	Pro	
		50				55					60					
Met	Tyr	Leu	Phe	Leu	Ala	Met	Leu	Ala	Thr	Thr	Asp	Leu	Val	Leu	Ser	
65					70					75					80	
Ser	Ser	Thr	Gln	Pro	Lys	Met	Leu	Ala	Ile	Leu	Trp	Phe	His	Asp	His	
			85						90					95		
Lys	Ile	Glu	Tyr	His	Ala	Cys	Leu	Ile	Gln	Val	Phe	Phe	Ile	His	Ala	
			100					105					110			
Phe	Ser	Ser	Val	Glu	Ser	Gly	Val	Leu	Met	Thr	Met	Ala	Leu	Asp	Arg	
		115					120					125				
Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	His	Ser	Ser	Ile	Leu	Thr	Thr	
		130				135					140					
Ser	Ala	Val	Ile	Lys	Leu	Gly	Ala	Val	Val	Met	Val	Arg	Gly	Leu	Leu	
145					150					155					160	
Trp	Val	Ser	Pro	Phe	Cys	Phe	Met	Val	Ser	Arg	Met	Pro	Phe	Cys	Pro	
				165					170					175		
Asn	Lys	Val	Ile	Ser	Gln	Ser	Tyr	Cys	Asp	His	Met	Ala	Val	Phe	Lys	
			180					185					190			
Leu	Ile	Cys	Ala	Asp	Thr	Arg	Val	Asn	His	Glu	Tyr	Gly	Leu	Phe	Val	
		195					200					205				
Ala	Phe	Ser	Val	Val	Gly	Phe	Asp	Ile	Ile	Val	Ile	Ser	Val	Ser	Tyr	
		210				215					220					
Val	Met	Ile	Leu	Arg	Ala	Val	Leu	Arg	Leu	Pro	Ser	Gly	Glu	Ala	Arg	
225					230					235					240	
Leu	Lys	Ala	Phe	Gly	Thr	Cys	Ala	Ser	His	Ile	Gly	Val	Ile	Leu	Thr	
				245					250					255		
Leu	Tyr	Ile	Pro	Ala	Leu	Phe	Thr	Phe	Leu	Thr	His	Leu	Phe	Gly	His	
			260					265					270			
His	Val	Pro	Leu	Val	Val	His	Ile	Ile	Phe	Ala	Asn	Val				
		275					280					285				

<210> 2173

<211> 319

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (109)...(238)

<223> Any amino acid

<221> VARIANT

<222> (240)...(246)

<223> Any amino acid

<400> 2173

Met	Leu	Thr	Tyr	Asn	Lys	Thr	Asn	Val	His	Pro	Ser	Thr	Phe	Ile	Leu	
1				5				10					15			
Ile	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Ala	His	Met	Trp	Ile	Ser	Ile	Pro	
			20					25					30			
Phe	Cys	Met	Gly	Tyr	Ile	Leu	Ala	Leu	Val	Gly	Asn	Ser	Ser	Leu	Leu	
		35					40				45					
Phe	Ile	Ile	Lys	Thr	Asp	Ser	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu	Phe	

50		55		60
Leu Cys Met Leu Ala Val	Ala Asp Leu Val Val	Cys Thr Thr Ala Val		
65	70	75	80	
Pro Lys Leu Leu Ser	Leu Phe Trp Phe His	Val Gly Glu Ile Arg Phe		
	85	90	95	
Glu Ala Cys Leu Thr Gln	Val Phe Leu Ile His	Ser Xaa Xaa Xaa Xaa		
	100	105	110	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	115	120	125	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	130	135	140	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
145	150	155	160	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	165	170	175	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	180	185	190	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	195	200	205	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
	210	215	220	
Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa	Xaa Xaa Xaa Xaa Xaa Xaa		
225	230	235	240	
Xaa Xaa Xaa Xaa Xaa Xaa	Thr Cys Gly Ser His	Val Cys Val Ile Leu		
	245	250	255	
Val Phe Tyr Thr Pro Ala	Phe Phe Ser Phe Leu Thr	His Arg Phe Gly		
	260	265	270	
His Lys Val Ala Pro His	Val His Ile Leu Val Ala	Asn Met Tyr Leu		
	275	280	285	
Leu Val Pro Pro Met Leu	Asp Pro Ile Ile Tyr Gly	Val Arg Thr Lys		
	290	295	300	
Lys Ile Arg Asp Arg Phe	Leu Lys Leu Phe Leu	Phe Gln Arg Val		
305	310	315		

<210> 2174  
 <211> 353  
 <212> PRT  
 <213> Mus musculus

<400> 2174

Met Pro Ser Phe Asn Gln Ser Ser Ala Gln His His Ser Phe Phe Phe	
1 5 10 15	
Leu Pro Gly Ile Pro Gly Leu Glu Leu Ser His Asn Trp Thr Ser Met	
	20 25 30
Ser Phe Cys Tyr Ala Ile Thr Val Ser Gly Asn Gly Ile Ile Leu Phe	
	35 40 45
Val Thr Ile Thr Glu Ser Ser Leu Pro Gly Pro Met His Tyr Phe Leu	
	50 55 60
Ser Met Leu Ser Phe Thr Asp Leu Gly Leu Cys Leu Ser Leu Leu Val	
65 70 75 80	
Thr Met Leu Ala Asn Ile Trp Ile Val Val Glu Ile Arg Leu Leu Lys	
	85 90 95
Thr Ile Phe Asn Phe Phe Glu Asn Leu Tyr Ile Tyr Thr Met Pro Phe	
	100 105 110
Asp His Met His Leu Ala Leu Pro Phe Ser Asp Ile Pro Tyr Ser Thr	
	115 120 125
Tyr Ser Val Trp Lys Glu Ser Lys Arg Trp Met Arg Arg Asn Val Val	
	130 135 140

Val	Thr	Ser	Gly	Gln	Asp	Met	Leu	Leu	Tyr	Ile	Ser	Thr	His	Arg	Glu
145					150					155					160
Tyr	Gly	Tyr	Ala	Gln	Asn	Leu	Gln	Tyr	Glu	Trp	Glu	Lys	Ser	Cys	Lys
				165					170					175	
Glu	Glu	Lys	Ser	Ala	Gln	Cys	Leu	His	Trp	Pro	Asn	Val	Ile	Tyr	Val
			180					185					190		
Phe	Ile	Phe	Met	Asp	Ser	Ser	Val	Leu	Leu	Val	Ile	Ala	Phe	Glu	Tyr
		195					200					205			
Phe	Thr	Val	Ile	Cys	Asp	Ser	Leu	Gly	Cys	Ala	Val	Ile	Ser	Thr	His
	210					215					220				
Ser	Arg	Leu	Ile	Thr	Val	Gly	Phe	Ala	His	Val	Ala	Met	Arg	Thr	Thr
225					230					235					240
Ala	Pro	Val	Leu	Leu	Leu	Leu	Phe	Lys	His	Leu	Cys	Phe	Cys	Cys	Cys
				245				250					255		
Arg	His	Met	His	Ile	Gln	Tyr	Val	Leu	Ile	Ile	His	Ser	Val	Leu	Cys
			260					265					270		
Ser	Val	Ser	Ser	Glu	Gly	Trp	Lys	Val	Leu	Gly	Ala	Cys	Leu	Ser	His
		275					280					285			
Leu	Ser	Ala	Ala	Thr	Ile	Ser	Tyr	Met	Pro	Thr	Ser	Val	Cys	Leu	Val
	290					295					300				
Gln	Arg	Phe	Arg	Lys	His	Asp	Leu	Pro	Phe	Leu	Tyr	Ile	Ser	Met	Val
305					310					315					320
Gly	Val	Cys	Leu	Leu	Ile	Pro	Ser	Met	Asn	Leu	Ile	Ile	His	His	Asn
				325					330					335	
Arg	His	Glu	Asn	Lys	Pro	Leu	Val	Lys	Phe	Ser	Phe	Thr	Ser	Tyr	Phe
			340					345					350		

Arg

<210> 2175  
 <211> 276  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (163)...(164)  
 <223> Any amino acid

<221> VARIANT  
 <222> (166)...(199)  
 <223> Any amino acid

<400> 2175

Met	Ser	Ile	Phe	Leu	Met	Ser	Asn	Leu	Ser	Thr	Ser	Arg	Phe	Val	Leu
1				5					10					15	
Thr	Gly	Phe	Pro	Gly	Leu	Glu	Phe	Tyr	Tyr	Ile	Leu	Leu	Ala	Ile	Pro
			20					25					30		
Phe	Ser	Thr	Val	Tyr	Ala	Met	Val	Phe	Leu	Gly	Asn	Cys	Met	Ile	Leu
		35					40				45				
His	Val	Ile	Arg	Thr	Glu	Ser	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe
	50					55				60					
Leu	Ala	Met	Leu	Ala	Leu	Thr	Asp	Leu	Cys	Met	Gly	Leu	Ser	Thr	Val
65					70					75					80
His	Thr	Val	Leu	Gly	Ile	Leu	Trp	Gly	Phe	Leu	Gln	Glu	Ile	Ser	Leu
			85						90					95	
Asp	Ala	Cys	Ile	Ala	Gln	Ser	Tyr	Phe	Ile	His	Gly	Leu	Ser	Ile	Met
			100					105						110	

Glu	Ser	Ser	Leu	Thr	Met	Ser	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn		
		115					120					125					
Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Leu	Thr	Asn	Asp	Arg	Ile	Leu	Lys	Ile		
	130					135					140						
Gly	Val	Ala	Ile	Leu	Cys	Val	Arg	Ser	Ser	Met	Leu	Ile	Pro	Pro	Val		
145					150					155					160		
Ile	Ile	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165					170						175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185						190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Ser	Leu	Gln	Thr	Cys	Val	Ser	His		
		195					200					205					
Ile	Ser	Ala	Val	Leu	Val	Phe	Tyr	Ile	Pro	Ile	Ile	Gly	Leu	Thr	Met		
	210					215					220						
Val	His	Arg	Phe	Gly	Lys	His	Leu	Ser	Pro	Leu	Val	Gln	Val	Leu	Met		
225					230					235					240		
Gly	Asn	Ile	Tyr	Ile	Leu	Phe	Pro	Pro	Phe	Met	Asn	Pro	Ile	Ile	Tyr		
				245					250					255			
Ser	Ile	Lys	Thr	Gln	Gln	Ile	Arg	Val	Arg	Ile	Gly	Arg	Leu	Phe	Thr		
			260					265					270				
Leu	Lys	Gly	Thr														
		275															

<210> 2176  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (114)...(249)  
 <223> Any amino acid

<400> 2176																	
Met	Ala	Leu	Ser	Asn	Asp	Ser	Glu	Ala	Pro	Ile	Ser	Glu	Phe	Leu	Leu		
1				5					10					15			
Ile	Cys	Phe	Pro	Asn	Tyr	Gln	Thr	Trp	Gln	His	Trp	Leu	Ser	Leu	Pro		
			20					25				30					
Leu	Ser	Leu	Leu	Phe	Leu	Leu	Ala	Met	Gly	Ala	Asn	Ala	Thr	Leu	Leu		
		35					40					45					
Ile	Thr	Ile	Arg	Leu	Glu	Ala	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Leu		
	50					55					60						
Leu	Ser	Leu	Leu	Ser	Leu	Leu	Asp	Ile	Val	Leu	Cys	Leu	Thr	Val	Ile		
65					70					75					80		
Pro	Lys	Val	Leu	Ala	Ile	Phe	Trp	Phe	Asp	Asn	Lys	Ser	Ile	Gly	Phe		
				85					90					95			
Ser	Ser	Cys	Phe	Leu	Gln	Met	Phe	Val	Met	Asn	Ser	Phe	Leu	Thr	Met		
			100					105					110				
Glu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			115					120					125				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			130					135					140				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155					160		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165					170						175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185					190			

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195						200						205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		210					215						220				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225					230					235							240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Gly	Ser	His	Phe	Ile	Leu		
				245					250					255			
Ile	Leu	Phe	Phe	Ser	Thr	Val	Leu	Leu	Val	Leu	Val	Ile	Thr	Asn	Leu		
			260					265					270				
Ala	Arg	Glu	Arg	Ile	Pro	Pro	Asp	Ile	Pro	Ile	Leu	Leu	Asn	Ile	Leu		
		275					280					285					
His	His	Leu	Ile	Pro	Pro	Ala	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg		
	290					295					300						
Thr	Arg	Glu	Ile	Lys	Gln	Gly	Ile	Gln	Asn	Leu	Leu	Arg	Arg	Leu			
305					310					315							

<210> 2177

<211> 322

<212> PRT

<213> Mus musculus

<400> 2177

Met	Glu	Leu	Asp	Pro	Ala	Val	Pro	Ala	Leu	Lys	Lys	Thr	Leu	Ser	Glu		
1				5					10					15			
Pro	Gly	Pro	Phe	Val	Leu	Leu	Gly	Val	Ala	Glu	Leu	Glu	Gly	Leu	His		
			20					25					30				
Ala	Trp	Phe	Ser	Val	Pro	Met	Ser	Leu	Leu	Tyr	Leu	Val	Gly	Met	Ile		
		35					40					45					
Gly	His	Leu	Leu	Leu	Gly	Val	Val	Ala	Val	Asp	Thr	Thr	Leu	Gln	Ala		
	50					55					60						
Pro	Met	Tyr	Gln	Leu	Leu	Gly	Leu	Leu	Ala	Ala	Ala	Asp	Leu	Ile	Leu		
65				70					75					80			
Ala	Thr	Ser	Pro	Ala	Pro	Lys	Ala	Gln	Ala	Val	Leu	Trp	Gly	Leu	Phe		
			85					90					95				
Gly	Glu	Ile	Ser	Phe	Gly	Gly	Trp	Leu	Ala	Gln	Cys	Phe	Val	Val	His		
			100					105					110				
Val	Ala	Phe	Thr	Ala	Glu	Ser	Ser	Val	Leu	Pro	Ala	Met	Ala	Met	Asp		
		115						120				125					
His	Ser	Val	Ser	Ile	Arg	Gln	Pro	Leu	Cys	Tyr	Gly	Ala	Leu	Leu	Ser		
	130					135					140						
Gln	His	Val	Val	Gly	Ile	Val	Ala	Ala	Ala	Ala	Val	Thr	His	Gly	Ala		
145					150					155					160		
Arg	Val	Met	Ala	Pro	Pro	Val	Val	Leu	Leu	Gln	Thr	Leu	Pro	His	Cys		
			165						170					175			
Gly	His	Arg	Ala	Ser	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Val	Ala		
		180						185					190				
Cys	Leu	Ala	Cys	Asp	Asp	Thr	Cys	Pro	Asn	Ile	Trp	Phe	Gly	Leu	Ala		
	195						200					205					
Thr	Thr	Leu	Pro	Ser	Pro	Val	Leu	Asp	Leu	Gly	Leu	Ile	Asp	Val	Ser		
	210					215						220					
Tyr	Ala	Leu	His	Ala	Val	Ser	Arg	Leu	Leu	Cys	His	Ser	Ala	His	Tyr		
225					230					235					240		
Lys	Ala	Leu	Gly	Lys	His	Gly	Thr	His	Ala	Ala	Gly	Leu	Phe	Tyr	Lys		
			245						250					255			
Pro	Ala	Leu	Phe	Ser	Phe	Leu	Ala	Tyr	Cys	Cys	Gly	Leu	His	Thr	Ile		
		260						265					270				
Pro	Ser	His	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro		



<210> 2179  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<400> 2179

Gln	Phe	Trp	Ile	Gly	Phe	Pro	Phe	Phe	Thr	Val	Cys	Leu	Val	Ala	Leu
1				5					10					15	
Leu	Gly	Asn	Ile	Ile	Leu	Leu	Ile	Ile	Ile	Pro	Ala	Glu	Arg	Ser	Leu
		20					25						30		
His	Gln	Pro	Met	Tyr	Ile	Phe	Leu	Ala	Val	Leu	Ala	Ala	Thr	Asp	Ile
		35				40					45				
Gly	Leu	Cys	Ala	Ala	Ile	Ala	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe
	50				55					60					
Arg	Ala	Tyr	Ser	Met	Ala	Phe	Asp	Ala	Cys	Leu	Ala	Gln	Leu	Phe	Phe
65				70					75						80
Ile	His	Thr	Leu	Gln	Cys	Met	Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala
			85					90					95		
Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asp	Pro	Leu	Arg	His	Thr	Ser	Ile
		100					105					110			
Leu	Thr	Pro	Ser	Ile	Leu	Gly	Arg	Met	Ile	Val	Val	Val	Val	Ile	Gly
		115				120						125			
Ala	Val	Val	Leu	Val	Gly	Leu	Leu	Pro	Ile	Leu	Ile	Lys	Arg	Leu	His
	130				135					140					
His	Phe	Trp	Ser	Ile	Gln	Ile	Ala	His	Ser	Tyr	Cys	Glu	His	Met	Ala
145				150					155					160	
Val	Val	Lys	Leu	Ala	Ala	Asp	Asp	Val	Gln	Val	Asn	Lys	Ile	Cys	Gly
			165					170					175		
Leu	Phe	Val	Gly	Phe	Ser	Ile	Leu	Gly	Phe	Asp	Met	Val	Phe	Ile	Ile
		180					185					190			
Ile	Ser	Tyr	Ala	Leu	Ile	Phe	Gln	Ala	Val	Phe	Arg	Leu	Lys	Gln	Lys
	195					200						205			
Glu	Ala	Arg	Leu	Lys	Ala	Phe	Asn	Thr	Cys	Thr	Ala	His	Ile	Phe	Val
	210				215						220				
Phe	Leu	Glu	Phe	Tyr	Ile	Leu	Ala	Phe	Phe	Ser	Phe	Phe	Ser	His	Arg
225				230					235					240	
Phe	Gly	His	Val	Val	Pro	Ser	Thr	His	Ile	Leu	Leu	Ser	Thr	Ile	Tyr
			245					250					255		
Leu	Leu	Leu	Pro	Pro	Ala	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Asn
		260					265					270			
Met	Val	Ile	Arg	Lys	Arg	Val	Ala	Gln	Ile	Phe	Phe	Leu	Asp	His	Ala
	275					280						285			
His	Gln														
	290														

<210> 2180  
 <211> 230  
 <212> PRT  
 <213> Mus musculus

<400> 2180

Met	Asp	Lys	Lys	Asn	Gln	Thr	Lys	Val	Thr	Glu	Ile	Tyr	Phe	Ser	Asp
1				5					10					15	
Phe	Pro	Gln	Phe	Glu	Asp	Gly	Gly	Leu	Leu	Leu	Phe	Ile	Leu	Leu	Leu
		20					25						30		
Cys	Val	Tyr	Leu	Phe	Ile	Val	Val	Gly	Asn	Ala	Val	Ile	Phe	Leu	Ala
		35				40						45			
Val	Gln	Leu	Asp	Val	Arg	Leu	His	Asn	Pro	Met	Tyr	Ser	Phe	Ile	Ser

50		55		60
Ile Phe Ser Phe Leu Glu	Ile Cys Tyr Thr Thr	Val Thr Ile Pro Gln		
65	70	75	80	
Met Leu Tyr Asn Leu Val	Ser Lys Glu Lys Thr	Ile Ser Phe Ile Gly		
	85	90	95	
Cys Leu Leu Gln Met Tyr	Phe Phe His Ser Phe	Gly Val Thr Glu Ser		
	100	105	110	
Leu Val Leu Thr Ile Met	Ala Ile Asp Arg Tyr	Val Ala Ile Cys Asn		
	115	120	125	
Pro Leu Arg Tyr Ala Ile	Ile Ile Thr Pro Lys	Leu Cys Thr Gln Leu		
	130	135	140	
Ser Thr Gly Ser Phe Thr	Leu Gly Phe Leu Met	Leu Leu Pro Glu Ile		
145	150	155	160	
Val Trp Ile Ser Thr Leu	Pro Phe Cys Gly Pro	Asn Gln Ile His Gln		
	165	170	175	
Leu Phe Cys Asp Leu Glu	Pro Met Leu Leu Leu	Ala Cys Thr Asp Thr		
	180	185	190	
Ser Met Ile Leu Val Glu	Asp Val Ile His Ala	Ile Ser Ile Leu Ser		
	195	200	205	
Cys Val Ser Ile Ile Ser	Leu Ser Tyr Leu Arg	Ile Ile Thr Arg Ile		
	210	215	220	
Leu Lys Ile Pro Ser Gly				
225	230			

<210> 2181

<211> 316

<212> PRT

<213> Mus musculus

<400> 2181

Met Asp Lys Lys Asn Gln Thr	Lys Val Thr Glu Phe Tyr	Phe Ser Asp
1	5	10
Phe Pro Gln Phe Glu Asp Gly	Gly Leu Leu Leu Phe Ile	Leu Leu Leu
	20	25
Cys Val Tyr Leu Phe Ile Val	Val Gly Asn Ala Met Ile	Phe Leu Ala
	35	40
Val Gln Leu Asp Val Arg Leu	His Asn Pro Met Tyr Ser	Phe Ile Ser
	50	55
Ile Phe Ser Phe Leu Glu Ile	Cys Tyr Thr Thr Val Thr	Ile Pro Gln
65	70	75
Met Leu Tyr Asn Leu Val Ser	Lys Glu Lys Thr Ile Ser	Phe Ile Gly
	85	90
Cys Leu Leu Gln Met Tyr Phe	Phe His Ser Phe Gly Ile	Thr Glu Gly
	100	105
Leu Val Leu Thr Ile Met Ala	Ile Asp Arg Tyr Val Ala	Ile Cys Asn
	115	120
Pro Leu Arg Tyr Ala Ile Ile	Ile Thr Pro Lys Leu Cys	Thr Gln Leu
	130	135
Ser Thr Gly Leu Cys Thr Leu	Gly Phe Leu Met Leu Leu	Pro Glu Ile
145	150	155
Val Trp Ile Ser Thr Leu Pro	Phe Cys Gly Pro Asn Gln	Ile His Gln
	165	170
Leu Phe Cys Asp Leu Glu Pro	Val Leu Leu Leu Ala Cys	Thr Asp Thr
	180	185
Ser Met Ile Leu Val Glu Asp	Ile Ile His Ala Ile Ser	Ile Leu Ser
	195	200
Cys Val Ser Ile Ile Ser Leu	Ser Tyr Leu Arg Ile Ile	Thr Val Val
	210	215
		220



Leu	Lys	Ile	Pro	Ser	Gly	Glu	Ser	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Thr	Ala	His	Ile	Thr	Ile	Phe	Val	Leu	Phe	Phe	Gly	Ser	Val	Ser	Leu
				245					250						255
Met	Tyr	Leu	Arg	Phe	Ser	Val	Thr	Phe	Gln	Pro	Leu	Leu	Glu	Lys	Val
			260					265					270		
Ile	Ala	Leu	Met	Phe	Ala	Val	Leu	Ala	Pro	Phe	Phe	Asn	Pro	Ile	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Lys	Ala	Ile	Lys	Glu	Met	Phe
	290					295					300				
Cys	Ser	Gln	Lys	Val	Arg	Arg	Leu	Trp	Glu	Pro	Met				
305					310					315					

<210> 2182

<211> 314

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (163)...(171)

<223> Any amino acid

<221> VARIANT

<222> (173)...(221)

<223> Any amino acid

<400> 2182

Met	Val	Ile	Lys	Gly	Leu	Gln	Val	Asp	Asn	Trp	Thr	Glu	Thr	Thr	His
1				5					10					15	
Phe	Val	Leu	Leu	Gly	Phe	Pro	Ser	Arg	Pro	Ala	Phe	Gln	Phe	Leu	Leu
			20					25					30		
Phe	Ser	Val	Phe	Leu	Val	Thr	Tyr	Leu	Leu	Thr	Leu	Ala	Glu	Asn	Leu
		35					40					45			
Leu	Ile	Ile	Leu	Ala	Ile	Arg	Ser	Asp	Gly	Gln	Leu	His	Lys	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Ser	His	Leu	Ser	Phe	Leu	Glu	Met	Trp	Tyr	Val	Thr
65					70					75					80
Val	Ile	Ser	Pro	Lys	Met	Leu	Val	Asp	Phe	Leu	Ser	Lys	Asp	Lys	Ser
				85					90					95	
Ile	Ser	Phe	Asn	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Val	Thr	Phe
			100					105					110		
Val	Cys	Thr	Glu	Tyr	Ile	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Pro	Val	Ile	Met	Thr	Asn	Gln
	130					135					140				
Leu	Cys	Gly	Val	Met	Ala	Gly	Gly	Cys	Trp	Phe	Cys	Gly	Leu	Met	Thr
145					150					155					160
Ala	Met	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	His	Xaa	Xaa	Xaa	Xaa
				165					170					175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185					190	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Pro	Ser
	210					215					220				
Ala	Gln	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr
225					230					235					240

Val	Val	Thr	Leu	Phe	Tyr	Ser	Thr	Thr	Leu	Phe	Thr	Tyr	Ala	Arg	Pro
				245					250					255	
Lys	Leu	Met	Tyr	Ala	Tyr	Asn	Ser	Asn	Lys	Val	Val	Ser	Val	Leu	Tyr
			260					265					270		
Thr	Val	Val	Val	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Cys	Leu	Arg	Asn
		275					280					285			
Arg	Asp	Val	Lys	Met	Ala	Leu	Lys	Lys	Thr	Ile	Leu	Cys	Asn	Arg	Ser
	290					295					300				
Gly	Ser	Gly	Gly	Asp	Gly	Asp	Phe	Ser	Ser						
305					310										

<210> 2183

<211> 315

<212> PRT

<213> Mus musculus

<400> 2183

Met	Leu	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile	Val	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Met	Leu
		35					40					45			
Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
Thr	Leu	Ser	Leu	Leu	Asp	Met	Gly	Tyr	Val	Thr	Thr	Thr	Met	Pro	Gln
65					70					75					80
Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Ala	Gly
			85						90					95	
Cys	Trp	Leu	Gln	Met	Phe	Val	Phe	Gly	Ala	Leu	Ser	Ile	Thr	Glu	Cys
			100					105					110		
Met	Ile	Phe	Val	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Asp	Leu	Cys	Ile	Arg	Leu	Ala
	130					135						140			
Ala	Gly	Ser	Trp	Ile	Cys	Gly	Phe	Phe	Ser	Ser	Leu	Leu	Asn	Thr	Phe
145					150					155					160
Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Asn	Val	Asn	His	Tyr
			165						170					175	
Leu	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys	Met	Asp	Thr	His
			180					185					190		
Phe	Val	Glu	Met	Val	Asp	Leu	Val	Leu	Ser	Val	Phe	Val	Val	Val	Thr
		195					200					205			
Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Arg	Ile	Ala	Lys	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Leu	Pro	Ala	Thr	Tyr
			245						250					255	
Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Ser	Ser	Ser	Glu	Arg	Asp	Lys	Gln
		260					265						270		
Ile	Ser	Leu	Phe	Tyr	Thr	Ala	Phe	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe	Leu	Lys	Val	Met
	290					295					300				
Leu	Tyr	Gly	Arg	Trp	Ile	Arg	Gly	Pro	Gln	Trp					
305					310					315					

<210> 2184  
 <211> 180  
 <212> PRT  
 <213> Mus musculus

<400> 2184  
 His Trp Gly Leu Cys Ile Arg Leu Ala Ala Gly Ser Trp Ile Cys Gly  
 1 5 10 15  
 Phe Phe Ser Ser Leu Leu His Thr Phe Phe Thr Met Ser Leu Pro Tyr  
 20 25 30  
 Cys Gly Pro Asn Arg Val Asn His Tyr Leu Cys Glu Gly Pro Ser Val  
 35 40 45  
 Arg Ser Leu Ala Cys Met Asp Thr His Ile Ile Glu Met Val Asp Leu  
 50 55 60  
 Val Leu Ser Val Phe Leu Val Val Thr Pro Ile Ser Leu Ile Val Ala  
 65 70 75 80  
 Ser Tyr Ile Arg Ile Ala Met Ala Ile Leu Lys Ile Lys Ser Thr Glu  
 85 90 95  
 Gly Arg Cys Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val  
 100 105 110  
 Thr Phe Phe Tyr Ala Pro Ala Ser Tyr Ile Tyr Met Arg Pro Asn Ser  
 115 120 125  
 Ser Tyr Ser Pro Glu Gln Asp Lys Gln Ile Ser Leu Phe Tyr Ser Ala  
 130 135 140  
 Phe Thr Pro Leu Leu Asn Pro Val Val Tyr Ser Leu Arg Asn Lys Asp  
 145 150 155 160  
 Ile Lys Arg Ala Phe Phe Lys Val Met Gly Tyr Asp Arg Cys Ala Ser  
 165 170 175  
 Gly Pro Gly Trp  
 180

<210> 2185  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2185  
 Met Ala Arg Gly Asn Gln Thr Ser Ile Phe Glu Phe Leu Leu Trp Gly  
 1 5 10 15  
 Leu Ser Glu Gln Pro Gln Gln Gln His Ile Leu Phe Leu Val Phe Leu  
 20 25 30  
 Trp Met Tyr Leu Val Thr Val Ala Gly Asn Leu Leu Ile Val Leu Ala  
 35 40 45  
 Ile Ser Thr Asp Val Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Ser Leu Ser Cys Asp Asp Ile Leu Leu Val Ser Thr Ile Val Pro Lys  
 65 70 75 80  
 Ala Leu Val Asn Ile His Thr Gln Ser Arg Thr Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Val Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp Ile  
 100 105 110  
 Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Arg Met Ile Met Ser Phe Gln Arg Cys Ser Leu Leu  
 130 135 140  
 Val Thr Val Cys Trp Ile Leu Thr Thr Val Val Ala Met Thr His Thr  
 145 150 155 160

Phe	Leu	Ile	Phe	Trp	Phe	Ser	Phe	Tyr	Ser	Lys	Lys	Val	Ile	Pro	Gly	
				165					170					175		
Phe	Phe	Cys	Asp	Leu	Glu	Pro	Leu	Ile	Lys	Ile	Pro	Cys	Ser	Glu	Thr	
			180					185					190			
Arg	Ile	Asn	Glu	Leu	Val	Leu	Leu	Phe	Leu	Gly	Ser	Ala	Val	Val	Phe	
		195					200					205				
Ile	Leu	Leu	Leu	Leu	Ile	Leu	Val	Ser	Tyr	Ile	Gln	Ile	Val	Ser	Ala	
	210					215					220					
Ile	Phe	Arg	Val	Pro	Ser	Ala	Gln	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	
225					230					235					240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ala	Leu	Phe	Phe	Gly	Thr	Val	Ile	
			245						250					255		
Arg	Ala	Tyr	Leu	Cys	Pro	Ser	Ser	Ser	Ser	Asn	Ser	Val	Val	Glu		
			260					265				270				
Asp	Thr	Ala	Ala	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	
		275					280					285				
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Val	
	290					295					300					
Arg	Ile	Leu	Lys	Gly	Lys	Val	Pro	Phe	Ser	Trp	Ala	Gln	Gly	Leu	Leu	
305					310					315					320	
Gln	Lys	Lys														

<210> 2186  
 <211> 349  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (132)...(222)  
 <223> Any amino acid

<400> 2186

Met	Ala	Arg	Gly	Asn	Gln	Thr	Ser	Thr	Phe	Glu	Phe	Leu	Leu	Trp	Gly	
1				5					10					15		
Leu	Ser	Glu	Lys	Pro	Gln	Gln	Gln	His	Ile	Leu	Phe	Leu	Val	Phe	Leu	
			20					25					30			
Trp	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Leu	Leu	Ile	Val	Leu	Ala	
		35					40					45				
Ile	Ser	Thr	Asp	Val	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	
	50					55					60					
Thr	Leu	Ser	Cys	Val	Asp	Ile	Leu	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys	
65					70					75					80	
Ala	Leu	Val	Asn	Ile	His	Thr	Gln	Ser	Arg	Thr	Ile	Ser	Tyr	Ala	Gly	
			85						90					95		
Cys	Leu	Val	Gln	Leu	Tyr	Phe	Phe	Leu	Thr	Phe	Gly	Asp	Met	Asp	Ile	
			100					105					110			
Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	
		115				120						125				
Pro	Leu	His	Tyr	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
	130					135						140				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
145					150					155					160	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
			165						170					175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
			180					185						190		

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195						200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Leu
		210						215					220			
Cys	Phe	Ser	Ser	Trp	Gly	Val	Gln	Ser	Ser	Ser	Pro	Phe	Leu	Leu	Ile	
225					230						235				240	
Leu	Met	Ser	Tyr	Ile	Arg	Ile	Val	Ser	Ala	Ile	Leu	Arg	Val	Pro	Ser	
				245						250					255	
Ala	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	
			260					265						270		
Val	Val	Ala	Leu	Phe	Phe	Gly	Thr	Val	Ile	Arg	Ala	Tyr	Leu	Cys	Pro	
		275					280						285			
Ser	Ser	Ser	Ser	Ser	Asn	Ser	Val	Val	Glu	Asp	Thr	Ala	Ala	Ala	Val	
		290				295					300					
Met	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	
305					310					315					320	
Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Val	Arg	Ile	Leu	Lys	Gly	Lys	
				325					330					335		
Val	Ser	Phe	Ser	Trp	Ala	Gln	Gly	Leu	Leu	Gln	Arg	Lys				
			340					345								

<210> 2187

<211> 310

<212> PRT

<213> Mus musculus

<400> 2187

Met	Lys	Glu	Glu	Asn	Glu	Ser	Phe	Thr	Thr	Asp	Phe	Thr	Leu	Leu	Gly	
1				5					10					15		
Val	Thr	Arg	His	Arg	Glu	Gln	Glu	Tyr	Phe	Phe	Phe	Ile	Leu	Phe	Leu	
			20					25					30			
Phe	Leu	Tyr	Pro	Ile	Thr	Val	Ile	Glu	Asn	Val	Leu	Ile	Ile	Leu	Ala	
		35					40					45				
Ile	His	Ser	Asp	Thr	Arg	Leu	His	Asn	Val	Met	Tyr	Phe	Phe	Leu	Ala	
	50					55				60						
Asn	Leu	Ser	Leu	Val	Asp	Ile	Phe	Phe	Ser	Phe	Val	Thr	Ile	Pro	Lys	
65					70				75						80	
Met	Leu	Ala	Asn	His	Leu	Leu	Gly	Arg	Lys	Ala	Ile	Ser	Phe	Gly	Gly	
				85					90					95		
Cys	Met	Ser	Gln	Met	Tyr	Phe	Met	Ile	Ser	Leu	Gly	Asn	Thr	Asp	Ser	
			100					105					110			
Tyr	Ile	Leu	Ala	Pro	Lys	Ala	Tyr	Asp	Arg	Ala	Val	Ala	Ile	Ser	Cys	
		115					120					125				
Pro	Leu	His	Tyr	Ala	Thr	Ile	Met	Ser	Ser	Arg	Pro	Val	Leu	Leu	Val	
	130					135					140					
Ala	Gly	Ser	Trp	Val	Ile	Glu	Asn	Ala	Asn	Val	Leu	Pro	His	Thr	Leu	
145					150					155					160	
Leu	Thr	Ala	Tyr	Ile	Ala	Leu	Cys	Gly	Asn	Lys	Asp	Val	Ala	Asn	Phe	
				165					170					175		
Tyr	Phe	Asp	Ile	Met	Pro	Leu	Leu	Val	Ser	Cys	Ser	Asp	Ile	Cys	Phe	
		180						185					190			
Asn	Val	Lys	Met	Met	Tyr	Leu	Gly	Val	Gly	Val	Phe	Ser	Val	Pro	Leu	
		195					200					205				
Leu	Ser	Phe	Ile	Ser	Tyr	Val	Pro	Val	Phe	Ser	Ile	Val	Leu	Arg	Val	
	210					215					220					
Pro	Cys	Thr	Thr	Gly	Phe	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	
225				230						235					240	
Leu	Thr	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Thr	Val	Met	Gly	Met	Tyr	Phe	



<210> 2189  
 <211> 348  
 <212> PRT  
 <213> Mus musculus

<400> 2189  
 Met Lys Glu Glu Asn Glu Ser Phe Thr Thr Asp Phe Thr Leu Leu Gly  
 1 5 10 15  
 Val Thr Arg Gln Arg Glu Gln Glu Tyr Phe Phe Phe Ile Leu Phe Leu  
 20 25 30  
 Phe Phe Tyr Pro Ile Thr Val Ile Glu Asn Val Leu Ile Ile Leu Asp  
 35 40 45  
 Ile Phe Phe Ser Ser Ala Thr Ile Leu Lys Met Leu Ala Asn His Leu  
 50 55 60  
 Leu Gly Ser Lys Ala Pro Ser Ile Ser Phe Gly Glu Cys Arg Ala Gln  
 65 70 75 80  
 Met Thr Phe Met Thr Ser Leu Ala Asn Thr Asp Ser Cys Ile Leu Ala  
 85 90 95  
 Ala Met Val Tyr Asp Arg Ser Val Ala Ile Ser Cys Ser Leu His Tyr  
 100 105 110  
 Ala Thr Ile Met Ser Leu Leu Cys Ala Leu Leu Asp Ala Gly Ser Trp  
 115 120 125  
 Val Ile Lys Ala Asn Met Leu Pro His Thr Gln Leu Thr Ala Arg Leu  
 130 135 140  
 Ser Phe Cys Gly Asn Lys Asp Val Ala Ile Phe Phe Phe Phe Phe Phe  
 145 150 155 160  
 Phe Phe Phe Asp Thr Gly Phe Ser Val Pro Trp Leu Ser Trp Asn Ser  
 165 170 175  
 Phe Cys Arg Thr Gly Pro Thr Gln Lys Ser Ala Cys Leu Cys Leu Ile  
 180 185 190  
 Ser Ala Gly Ile Lys Gly Val Cys His His Cys Leu Ala Cys Gly Asn  
 195 200 205  
 Phe Tyr Cys Asp Asn Met Pro Leu Leu Gln Leu Ser Cys Ser Asp Ile  
 210 215 220  
 Cys Phe Asn Val Lys Met Met Tyr Leu Gly Val Gly Val Phe Ser Val  
 225 230 235 240  
 Pro Leu Leu Tyr Ile Ile Ser Tyr Val Arg Val Phe Ser Thr Val Leu  
 245 250 255  
 Arg Val Pro Ser Thr Lys Gly Phe Leu Lys Ala Leu Ser Thr Cys Gly  
 260 265 270  
 Pro His Leu Thr Val Val Ser Leu Tyr Tyr Gly Thr Val Met Val Met  
 275 280 285  
 Tyr Phe Arg Pro Leu Thr Ser Tyr Ser Leu Lys His Thr Leu Ile Ile  
 290 295 300  
 Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser  
 305 310 315 320  
 Leu Arg Asn Arg Asp Met Lys Thr Ala Leu Lys Lys Leu Leu His Gln  
 325 330 335  
 Met Gln Thr Leu Leu His Met Pro Ala Arg Phe Cys  
 340 345

<210> 2190  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2190  
 Met Glu Asn Lys Thr Glu Val Thr Gln Phe Phe Leu Gln Gly Leu Ala

1				5					10					15			
Ser	Asp	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Ile	Phe	Leu	Leu	Ile		
			20					25					30				
Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile	Val		
		35					40					45					
Leu	Asp	Ala	His	Leu	His	Ser	Pro	Met	Tyr	Ile	Phe	Leu	Gly	Asn	Leu		
	50					55					60						
Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Gly	Val	Thr	Pro	Lys	Val	Met		
65				70					75					80			
Ala	Gly	Phe	Leu	Val	Gly	Asp	Lys	Val	Met	Ser	Tyr	Asn	Asp	Cys	Ala		
			85					90					95				
Ala	Gln	Met	Phe	Phe	Val	Thr	Gly	Phe	Ala	Thr	Val	Glu	Asn	Tyr	Leu		
		100					105						110				
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu		
		115				120						125					
His	Tyr	Ala	Ser	Thr	Met	Thr	Thr	Ser	Met	Cys	Ile	Trp	Met	Ile	Ala		
	130					135					140						
Gly	Cys	Tyr	Ala	Cys	Gly	Phe	Leu	Asn	Ala	Cys	Ile	Tyr	Thr	Gly	Asp		
145				150					155					160			
Ala	Phe	Ser	Leu	Ser	Phe	Cys	Lys	Ala	Asp	Val	Val	His	His	Phe	Phe		
			165					170					175				
Cys	Asp	Ile	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asn	Lys	His	Ile		
		180						185					190				
Asn	Glu	Leu	Val	Leu	Val	Cys	Val	Ala	Ser	Phe	Asn	Ile	Phe	Phe	Ala		
		195				200						205					
Leu	Ile	Ile	Ile	Leu	Ile	Ser	Tyr	Leu	Met	Ile	Phe	Ile	Thr	Ile	Ile		
	210					215					220						
Lys	Met	His	Ser	Ala	Ser	Gly	His	Gln	Lys	Ala	Met	Ser	Thr	Cys	Ala		
225				230					235					240			
Ser	His	Phe	Thr	Ala	Val	Phe	Ile	Phe	Tyr	Gly	Thr	Val	Ile	Phe	Met		
			245					250					255				
Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ala	Met	Asp	Thr	Asp	Lys	Thr	Val		
		260						265					270				
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Leu	Leu	Asn	Pro	Leu	Val	Tyr		
		275				280						285					
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Arg	Lys	Ile	Ile	Phe		
	290					295					300						
Arg	Pro	Lys															
305																	

<210> 2191

<211> 307

<212> PRT

<213> Mus musculus

<400> 2191

Met	Glu	Asn	Gly	Thr	Glu	Met	Val	Arg	Phe	Ile	Leu	Met	Gly	Leu	Thr		
1				5					10				15				
Asp	Asp	Pro	Asp	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Thr	Phe	Leu	Leu	Ile		
		20						25				30					
Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Leu	Ile	Leu	Leu	Ile	Leu		
		35				40					45						
Leu	Asp	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Ser	Asn	Leu		
	50					55					60						
Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Thr	Val	Thr	Pro	Lys	Val	Met		
65				70					75					80			
Ala	Gly	Phe	Ile	Ile	Gly	Asp	Lys	Met	Met	Ser	Tyr	Asn	Ala	Cys	Ala		
			85					90					95				



Ser	Gln	Met	Phe	Phe	Phe	Ala	Asn	Phe	Ala	Asn	Val	Glu	Asn	Tyr	Leu	
			100					105					110			
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu	
		115					120					125				
His	Tyr	Ala	Thr	Thr	Met	Thr	Thr	Arg	Val	Cys	Ala	Cys	Leu	Val	Ile	
	130					135					140					
Ser	Cys	Tyr	Ile	Cys	Gly	Phe	Leu	Asn	Ala	Ser	Ile	Tyr	Thr	Val	Asn	
145					150					155					160	
Ala	Leu	Tyr	Leu	Thr	Phe	Cys	Glu	Leu	Asn	Val	Val	His	His	Phe	Phe	
				165					170					175		
Cys	Asp	Ile	Pro	Ala	Val	Met	Ile	Ala	Ser	Cys	Ser	His	Arg	His	Ala	
		180						185					190			
Asn	Asp	Met	Val	Leu	Ile	Ser	Val	Ala	Ser	Phe	Asn	Ile	Phe	Phe	Ala	
		195					200					205				
Leu	Ile	Leu	Ile	Leu	Ile	Ser	Tyr	Thr	Phe	Ile	Phe	Thr	Asn	Ile	Leu	
	210					215					220					
Lys	Met	His	Ser	Asn	Ser	Gly	Tyr	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ala	
225					230					235					240	
Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe	Met	
				245					250					255		
Tyr	Leu	Gln	Pro	Arg	Ser	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Ala	
		260						265					270			
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	
		275					280					285				
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ser	Ala	Phe	Thr	Lys	Ile	Val	Leu	
	290					295					300					
Arg	Ser	Arg														
305																

<210> 2192

<211> 317

<212> PRT

<213> Mus musculus

<400> 2192

Ile	Asn	Leu	Val	Glu	Asn	Ile	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Val	
1				5					10					15		
Gly	Ile	Thr	Asp	Ala	Pro	Glu	Leu	Leu	Ile	Pro	Leu	Phe	Ile	Ile	Phe	
			20					25					30			
Thr	Leu	Ile	Tyr	Leu	Ile	Ala	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Met	
		35					40					45				
Leu	Ile	Leu	Leu	Asp	Ser	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	
	50					55				60						
Cys	Asn	Leu	Pro	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Ile	Thr	Pro	
65					70				75						80	
Lys	Val	Met	Glu	Gly	Phe	Leu	Thr	Gly	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	
				85					90					95		
Ala	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Gly	Ala	Ile	Glu	
		100						105					110			
Ser	Leu	Ile	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Cys	Gln	Ala	Gly	Ala	Lys	
		115					120					125				
Leu	Leu	His	Tyr	Thr	Thr	Ile	Met	Thr	Ser	Ser	Thr	Cys	Ile	Leu	Ile	
	130					135					140					
Val	Thr	Cys	Cys	Tyr	Met	Cys	Gly	Ile	Leu	Gln	Ser	Ser	Val	His	Val	
145					150					155					160	
Ala	Leu	Ala	Phe	Cys	Leu	Phe	Phe	Cys	His	Ser	Asn	Met	Ile	Asn	His	
				165					170					175		
Phe	Ser	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Glu	Ile	Ser	Arg	Ser	Asp	Thr	

			180					185					190				
His	Thr	Asn	Gly	Ile	Thr	Pro	Leu	Ile	Leu	Ala	Thr	Leu	Asp	Leu	Val		
		195					200					205					
Phe	Thr	Leu	Leu	Val	Ile	Leu	Asn	Thr	Tyr	Leu	Leu	Ile	Phe	Ile	Ala		
	210				215						220						
Ile	Leu	Arg	Met	His	Ser	Ala	Glu	Ala	Gln	Arg	Lys	Asp	Phe	Ser	Thr		
225					230					235					240		
Arg	Val	Ser	His	Leu	Ile	Thr	Ala	Ser	Ile	Phe	Phe	Gly	Ser	Leu	Ile		
			245						250					255			
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Pro	Glu	Ala	Asp	Lys		
		260					265					270					
Ile	Ala	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Ile	Met	Phe	Asn	Pro		
	275					280						285					
Val	Ala	Tyr	Ser	Leu	Arg	Asn	Ile	Glu	Asp	Lys	Cys	Ala	Phe	Lys	Lys		
	290					295					300						
Val	Val	Gly	Lys	Leu	Arg	Thr	Ser	Leu	His	Ser	Val	Asn					
305					310					315							

<210> 2193

<211> 310

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (235)...(261)

<223> Any amino acid

<400> 2193

Met	Glu	Asn	Ile	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Leu	Thr		
1				5				10					15				
Asp	Ala	Pro	Glu	Leu	Gln	Ile	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu	Ile		
		20					25					30					
Tyr	Leu	Ile	Ala	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile	Leu		
	35					40					45						
Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu		
	50				55					60							
Ser	Val	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Ile	Thr	Pro	Lys	Val	Ile		
65				70					75						80		
Glu	Gly	Phe	Leu	Thr	Gly	Ser	Lys	Thr	Ile	Ser	Leu	Asn	Gly	Cys	Ala		
			85					90					95				
Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ile	Ala	Ile	Glu	Ser	Leu	Ile		
	100						105					110					
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro	Leu		
	115					120					125						
His	Tyr	Thr	Thr	Ile	Met	Thr	Ser	Thr	Thr	Cys	Ile	Leu	Ile	Val	Thr		
	130				135						140						
Cys	Cys	Tyr	Met	Cys	Gly	Ile	Leu	Gln	Ser	Ser	Val	His	Val	Ala	Leu		
145				150					155						160		
Ala	Phe	Cys	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Ile	Asn	His	Phe	Phe		
			165					170						175			
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Asp	Ile	Ser	Cys	Ser	Asp	Thr	His	Thr		
	180						185					190					
Asn	Glu	Ile	Thr	Leu	Leu	Val	Leu	Ala	Thr	Leu	Asp	Val	Val	Phe	Thr		
	195					200						205					
Leu	Leu	Val	Ile	Leu	Asn	Thr	Tyr	Leu	Leu	Ile	Phe	Ile	Ala	Ile	Leu		
	210				215						220						
Arg	Met	Arg	Ser	Ala	Glu	Ala	Gln	Arg	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		

225					230					235					240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				245					250					255	
Xaa	Xaa	Xaa	Xaa	Xaa	Met	Asp	Thr	Asp	Lys	Ile	Ala	Ser	Val	Phe	Tyr
			260					265					270		
Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn
		275					280					285			
Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Val	Glu	Arg	Leu	Met	Ser
	290					295					300				
Ser	Phe	His	Leu	Val	His										
305					310										

<210> 2194

<211> 293

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (202)...(215)

<223> Any amino acid

<400> 2194

Met	Gly	Asn	Asn	Thr	Asp	Val	Thr	His	Phe	Leu	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Met	Ile	Phe	Leu	Ile	Ile
			20					25					30		
Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Ile	Ile	Leu	Leu	Ile	Phe
		35					40					45			
Leu	Asp	Ser	Ser	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Asp	Val	Thr	Pro	Arg	Val	Met
65					70				75					80	
Thr	Gly	Leu	Leu	Ile	Gly	Asp	Lys	Val	Ile	Ser	Tyr	Asn	Gly	Cys	Ala
				85					90					95	
Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ala	Thr	Val	Glu	Asn	Phe	Leu
		100						105					110		
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Ala	Thr	Thr	Met	Thr	Ser	Gly	Val	Cys	Val	Cys	Leu	Ser	Ile
	130					135					140				
Gly	Ala	Tyr	Thr	Cys	Gly	Phe	Leu	Ile	Ala	Ser	Ile	His	Ile	Gly	Asp
145					150				155					160	
Thr	Phe	Ser	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Ala	Val	Met	Ile	Leu	Ser	Cys	Ser	Asp	Arg	His	Val
			180					185					190		
Ser	Glu	Leu	Val	Leu	Phe	Tyr	Val	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Val	Glu	Leu	Ile	Ser	Leu	Ile	Ile	Val
		210					215					220			
Phe	Cys	His	Leu	Pro	Ile	Lys	Phe	Gln	Asn	Gly	Phe	His	Ile	Ser	Ala
225					230					235					240
Cys	Gln	His	Arg	Ser	Ile	Glu	Lys	Gly	Leu	Tyr	Ile	Gln	Glu	Ile	Met
				245					250					255	
Arg	Ile	Phe	Leu	Ser	Phe	Lys	Asn	Thr	Ser	Val	Lys	Ile	Met	Cys	Ile
			260					265					270		
Leu	Phe	Trp	Met	Ile	Cys	Met	Ser	Ser	Tyr	Ser	Gln	Asp	Asn	Val	Glu

275  
Lys Asp Phe Lys Asn  
290

280

285

<210> 2195  
<211> 308  
<212> PRT  
<213> Mus musculus

<400> 2195  
Met Glu Asn Asn Thr Glu Val Thr His Phe Leu Leu Leu Gly Leu Thr  
1 5 10 15  
Asp Asp Pro Glu Leu Gln Leu Pro Leu Phe Met Ile Leu Leu Ile Ile  
20 25 30  
Tyr Thr Ile Thr Leu Val Gly Asn Leu Gly Lys Ile Leu Leu Ile Phe  
35 40 45  
Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu  
50 55 60  
Ser Leu Val Asp Phe Cys Tyr Ser Ser Asp Val Thr Pro Lys Val Met  
65 70 75 80  
Ser Gly Leu Leu Lys Gly Asp Lys Val Ile Ser Tyr Asn Gly Cys Ala  
85 90 95  
Ala Gln Met Phe Phe Phe Val Ala Phe Ala Thr Val Glu Asn Phe Leu  
100 105 110  
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu  
115 120 125  
His Tyr Ala Thr Thr Met Thr Ser Gly Val Cys Val Cys Leu Ser Ile  
130 135 140  
Gly Ser Tyr Ala Cys Gly Phe Leu Ile Ala Ser Ile His Ile Gly Asp  
145 150 155 160  
Thr Phe Asn Leu Ser Phe Cys Arg Ser Asn Val Val His His Phe Phe  
165 170 175  
Cys Asp Ile Pro Ala Val Met Ile Leu Ser Cys Ser Asp Arg His Val  
180 185 190  
Ser Glu Leu Val Leu Phe Tyr Val Gly Ser Phe Ser Ile Phe Phe Leu  
195 200 205  
Leu Ser Leu Val Ile Cys Ile Ser Tyr Ile Phe Ile Phe Ile Thr Ile  
210 215 220  
Phe Lys Met His Ser Asn Ala Gly Tyr Gly Lys Ala Val Ser Thr Cys  
225 230 235 240  
Ala Ala His Phe Thr Ala Val Ser Ile Phe Tyr Gly Thr Gly Ile Phe  
245 250 255  
Met Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile  
260 265 270  
Thr Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn Pro Leu Val  
275 280 285  
Tyr Ser Met Arg Asn Lys Glu Val Lys Arg Ala Phe Thr Asn Val Phe  
290 295 300  
His Lys Ala Lys  
305

<210> 2196  
<211> 289  
<212> PRT  
<213> Mus musculus

<220>

<221> VARIANT  
 <222> (151)...(154)  
 <223> Any amino acid

<221> VARIANT  
 <222> (156)...(157)  
 <223> Any amino acid

<400> 2196

Met	Thr	Pro	Leu	Lys	Asn	Trp	Thr	Glu	Val	Thr	His	Phe	Leu	Leu	Leu
1				5				10					15		
Gly	Leu	Thr	Asp	Asp	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Ile	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Ile	Phe	Thr	Leu	Val	Gly	Asn	Leu	Gly	Leu	Ile	Leu
		35					40					45			
Leu	Ile	Leu	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Gly	Asn	Leu	Ser	Leu	Val	Asp	Val	Phe	Tyr	Ser	Ser	Ala	Ile	Thr	Pro
65					70					75					80
Lys	Val	Met	Ala	Gly	Leu	Leu	Leu	Gly	Asp	Lys	Ile	Ile	Ser	Tyr	Asn
				85					90					95	
Ser	Cys	Ala	Ala	Gln	Met	Phe	Val	Phe	Ala	Thr	Phe	Ala	Thr	Val	Glu
			100					105					110		
Asn	Tyr	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys
		115					120					125			
Lys	Pro	Leu	His	Tyr	Ala	Thr	Thr	Met	Thr	Pro	Ser	Val	Cys	Met	Cys
	130					135					140				
Leu	Ile	Met	Gly	Cys	Tyr	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Phe	Cys	Asp
145					150					155					160
Met	Pro	Ala	Leu	Met	Ala	Leu	Ser	Cys	Ser	Asp	Arg	His	Ile	Asn	Glu
				165					170					175	
Leu	Val	Leu	Ile	Tyr	Leu	Ala	Ser	Phe	Thr	Leu	Phe	Phe	Ala	Leu	Ile
			180					185					190		
Ile	Ile	Leu	Val	Ser	Tyr	Thr	Ile	Ile	Phe	Ile	Thr	Ile	Leu	Asn	Met
		195					200					205			
His	Thr	Gly	Ala	Gly	Leu	Gln	Lys	Ala	Ile	Ser	Thr	Cys	Ala	Ser	His
	210					215					220				
Phe	Ile	Ala	Val	Phe	Ile	Phe	Tyr	Gly	Thr	Thr	Ile	Phe	Met	Tyr	Leu
225					230					235					240
Gln	Pro	Ser	Ser	Arg	His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Val	Ser	Val
				245					250					255	
Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	Ser	Leu
			260					265					270		
Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Met	Lys	Trp	Ile	Leu	Lys	Glu
		275					280					285			

Lys

<210> 2197  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2197

Met	Lys	Lys	Asn	Ile	Glu	Glu	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Lys	Ser	Pro	Glu	Leu	Gln	Val	Leu	Leu	Leu	Met	Ile	Leu	Thr	Phe	Ile
			20					25					30		

Tyr	Ala	Ile	Thr	Leu	Thr	Gly	Asn	Leu	Gly	Met	Phe	Leu	Leu	Ile	Leu
		35					40					45			
Leu	Asp	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Phe	Gly	Ser	Ser	Ser	Thr	Val	Thr	Pro	Lys	Val	Met
65					70					75					80
Ala	Gly	Leu	Leu	Thr	Gly	Ser	Asn	Val	Ile	Ser	Tyr	Asn	Thr	Tyr	Ala
				85					90					95	
Val	Leu	Met	Phe	Phe	Phe	Val	Phe	Phe	Ala	Thr	Val	Asp	Ser	Tyr	Leu
			100					105				110			
Leu	Ala	Ser	Ile	Ser	Met	Ala	Tyr	Asp	Gly	Tyr	Ala	Ala	Val	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Thr	Met	Thr	Lys	Gly	Val	Cys	Thr	Cys	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Tyr	Ile	Phe	Gly	Ile	Leu	Asn	Ala	Ser	Ile	Gln	Ile
145					150					155					160
Ile	Phe	Gly	Leu	Pro	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Asn	His	Leu	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Ala	Val	Arg	Ile	Leu	Ala	Cys	Ser	Asp	Lys	His	Val
			180					185					190		
Asn	Glu	Met	Ile	Leu	Ile	Leu	Val	Ser	Ser	Phe	His	Ile	Ile	Phe	Val
		195					200					205			
Phe	Leu	Val	Ile	Leu	Ile	Ser	Tyr	Leu	Leu	Ile	Phe	Leu	Tyr	Ile	Leu
	210					215					220				
Lys	Met	His	Ser	Ser	Glu	Gly	Tyr	His	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225					230					235					240
Ser	His	Val	Thr	Ala	Val	Phe	Thr	Phe	Tyr	Gly	Thr	Val	Thr	Ile	Val
				245					250					255	
Tyr	Leu	Lys	Pro	Ser	Ala	Asn	His	Ser	Ile	Asp	Thr	Asp	Lys	Phe	Val
			260					265					270		
Ser	Val	Ile	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Val	Tyr
		275					280					285			
Ser	Leu	Thr	Asn	Lys	Glu	Val	Lys	Asn	Ala	Leu	Lys	Asn	Ile	Phe	Gln
	290					295					300				
Lys	Ala	Lys	Leu	Tyr	Val	Tyr	Met	Leu	Tyr						
305					310										

<210> 2198

<211> 369

<212> PRT

<213> Mus musculus

<400> 2198

Met	Thr	Met	Met	Glu	Asn	Arg	Thr	Glu	Val	Thr	Gln	Phe	Ile	Leu	Ser
1				5					10					15	
Arg	Leu	Thr	Asp	Asp	Pro	Ser	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Thr	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Ile	Leu	Ile	Leu	Gly	Met	Ile	Leu	Leu	Phe	Ile	Leu
		35					40					45			
Asp	Ser	Trp	Leu	Tyr	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Pro	Ser
	50					55				60					
Leu	Gly	Asp	Leu	Ser	Tyr	Ser	Ser	Tyr	Ile	Thr	Pro	Lys	Val	Met	Asp
65					70					75					80
Gly	Ser	Leu	Ile	Gly	Asp	Asn	Val	Ser	Leu	Ser	Tyr	Asn	Asp	Cys	Ala
				85					90					95	
Asp	Gln	Met	Phe	Phe	Ala	Ala	Gly	Phe	Ala	Ser	Val	Glu	Asn	Tyr	Leu
			100				105						110		
Ala	Ser	Ala	Gly	Tyr	Asp	Cys	Tyr	Ala	Lys	Leu	Cys	Lys	Leu	Leu	His



Met	Val	Met	Gly	Ser	Tyr	Thr	Ala	Gly	Ile	Met	Gly	Ser	Leu	Ser	Gln
145					150					155					160
Val	Cys	Ala	Leu	Leu	Gln	Leu	His	Phe	Cys	Gly	Pro	Asn	Val	Ile	Arg
				165					170						175
His	Phe	Phe	Cys	Asp	Met	Pro	Gln	Leu	Leu	Asn	Leu	Ser	Cys	Thr	Asp
			180					185					190		
Thr	Phe	Phe	Ala	Gln	Val	Val	Leu	Leu	Ile	Leu	Thr	Met	Leu	Phe	Cys
		195					200					205			
Ile	Ser	Asn	Ala	Leu	Val	Ile	Ile	Ile	Ser	Tyr	Gly	Tyr	Ile	Val	Leu
	210					215					220				
Ser	Ile	Leu	Lys	Ile	Thr	Ser	Ala	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Asn
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Phe	Tyr	Thr	Ser	Ser
				245					250						255
Ala	Phe	Val	Tyr	Leu	Ser	Ser	Ser	Ser	Gly	Gly	Ser	Ser	Ser	Phe	Asp
			260					265					270		
Arg	Phe	Val	Ser	Val	Phe	Tyr	Thr	Val	Leu	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asp	Ala	Gly	Lys	Arg
	290					295					300				
Leu	Gln	Lys	Lys	Leu	Gly	Cys	Cys								
305					310										

<210> 2200

<211> 319

<212> PRT

<213> Mus musculus

<400> 2200

Met	Ala	Gly	Gly	Arg	Asn	Ser	Thr	Val	Val	Thr	Arg	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Asp	Gln	Pro	Gln	Met	Lys	Ile	Phe	Leu	Phe	Met	Leu	Phe
			20					25				30			
Leu	Gly	Ile	Tyr	Ile	Leu	Thr	Leu	Ala	Trp	Asn	Leu	Ser	Leu	Ile	Thr
		35					40					45			
Leu	Ile	Arg	Met	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Ser	Thr	Ala	Pro
65					70				75						80
Lys	Met	Leu	Ser	Asp	Ile	Val	Thr	Asp	Lys	Asn	Thr	Ile	Ser	Phe	Leu
				85					90					95	
Gly	Cys	Ala	Thr	Gln	Tyr	Phe	Val	Phe	Cys	Gly	Met	Gly	Leu	Thr	Glu
			100					105				110			
Cys	Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Thr	Ala	Val	Cys
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Met	Ala	Leu	Met	Ser	His	Thr	Leu	Cys	Leu	Lys
	130					135					140				
Leu	Val	Ala	Gly	Ala	Tyr	Met	Gly	Gly	Phe	Leu	Ser	Ser	Leu	Ile	Ala
145					150					155					160
Thr	Cys	Ser	Ile	Tyr	Gln	His	Asp	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn
				165					170						175
His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Ile	Phe	Thr	Ser	Gln	Val	Val	Thr	Phe	Ile	Leu	Gly	Val	Ile	Val	Gly
		195					200					205			
Val	Met	Ser	Val	Leu	Val	Val	Leu	Ile	Ser	Tyr	Gly	Tyr	Ile	Ile	Ala
	210					215					220				
Ala	Val	Leu	Arg	Ile	Asn	Ser	Ala	Lys	Gly	Arg	Thr	Lys	Ala	Phe	Ser



225					230					235				240
Thr	Ser	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Ser Gly
				245					250					255
Leu	Phe	Met	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Leu	Gly	Gln Asp
			260					265					270	
Lys	Val	Ala	Ser	Val	Phe	Tyr	Ala	Val	Val	Val	Pro	Met	Met	Asn Pro
		275					280				285			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asn	Ala	Val	Arg Lys
	290					295					300			
Ala	Val	Glu	Arg	Asp	Ser	Met	Leu	Ser	His	Gly	Tyr	Ser	Phe	Phe
305					310					315				

<210> 2201  
 <211> 294  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (158)...(164)  
 <223> Any amino acid

<400> 2201

Val	Ile	Ile	Tyr	Pro	Val	Phe	Thr	Glu	Leu	Val	Cys	Pro	Ser	Pro	Leu
1				5					10					15	
Asp	Glu	Lys	Leu	Ser	Arg	Glu	Ala	Ile	Leu	Phe	Ala	Tyr	Met	Met	Leu
			20					25				30			
Ser	Thr	Pro	Pro	Leu	Tyr	Val	Ile	Ser	Lys	Ile	Ser	Leu	Ser	Pro	Thr
		35				40					45				
Ala	Phe	Ile	Pro	Ser	Ser	Leu	Ser	His	Ala	Ser	Cys	Ser	Phe	Tyr	Ala
	50					55					60				
Gly	Lys	Ala	Arg	Ala	Gln	Asn	Cys	Cys	Arg	Glu	Asn	Phe	Gly	Phe	Phe
65				70					75					80	
Lys	Asn	Thr	Asp	Lys	Leu	Ser	Glu	Tyr	Ile	Phe	Val	Ser	Ile	Pro	Asp
			85					90					95		
Val	Gly	Tyr	Trp	Gly	Ala	Ser	Gly	Cys	Pro	His	Gln	Leu	Thr	Thr	Leu
		100					105					110			
Ser	Ser	Ala	Leu	Ala	Gly	Val	Ser	Tyr	Leu	Pro	Ala	Glu	Asp	Ser	Leu
		115				120						125			
Cys	Leu	Glu	Phe	Trp	Gly	Leu	Leu	Arg	Glu	Phe	Glu	Asn	Thr	Asn	Ala
	130					135					140				
Glu	Gly	Leu	Ala	Ala	Val	Val	Pro	Leu	Gln	Val	Leu	Leu	Xaa	Xaa	Xaa
145				150					155					160	
Xaa	Xaa	Xaa	Xaa	Pro	Leu	Ser	Cys	Ser	Asp	Pro	Phe	Ile	Ser	Gln	Leu
			165					170					175		
Val	Leu	Phe	Leu	Ala	Ala	Leu	Phe	Val	Gly	Phe	Gly	Ser	Phe	Leu	Val
		180					185					190			
Ile	Ile	Phe	Ser	Tyr	Val	Phe	Ile	Ala	Val	Ser	Ile	Leu	Lys	Val	Ala
	195					200					205				
Ser	Phe	Lys	Gly	Arg	Val	Lys	Ala	Phe	Lys	Thr	Cys	Gly	Ser	His	Leu
	210				215					220					
Ala	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Phe	Ser	Val	Tyr	Met	His
225				230					235					240	
His	Ser	Ser	Gln	His	Ser	Thr	Lys	Gln	Asp	Lys	Val	Leu	Ser	Val	Val
			245					250					255		
Tyr	Thr	Ile	Leu	Ile	Pro	Met	Val	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg
		260					265					270			
Asn	Thr	Glu	Ile	Lys	Glu	Ala	Leu	Lys	Arg	Val	Leu	Lys	Lys	Ala	Ala

275  
His Leu Pro Gln Lys Ala  
290

280

285

<210> 2202  
<211> 302  
<212> PRT  
<213> Mus musculus

<400> 2202  
Phe Ser Trp Gly Phe Pro Gly Ser Trp Glu Glu Gln Ile Phe Leu Phe  
1 5 10 15  
Val Leu Phe Leu Val Phe Tyr Val Leu Thr Leu Leu Gly Asn Gly Ala  
20 25 30  
Ile Ile Cys Ala Val Arg Cys Asp Ser Arg Leu His Thr Pro Met Tyr  
35 40 45  
Phe Leu Leu Gly Asn Phe Ala Phe Leu Glu Ile Trp Tyr Val Ser Ser  
50 55 60  
Thr Thr Pro Asn Thr Leu Ala Asn Ile Leu Ser Lys Thr Lys Thr Ile  
65 70 75 80  
Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly  
85 90 95  
Thr Thr Glu Cys Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Leu  
100 105 110  
Ala Ile Cys Arg Pro Leu His Tyr Pro Thr Ile Met Thr Arg Arg Leu  
115 120 125  
Cys Cys Ile Leu Val Ser Ser Cys Trp Leu Ile Gly Phe Leu Gly Tyr  
130 135 140  
Pro Ile Pro Val Phe Ser Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn  
145 150 155 160  
Ile Ile Asp His Phe Leu Cys Asp Met Asp Pro Leu Met Ala Leu Ser  
165 170 175  
Cys Val Pro Ala Pro Ile Thr Lys Leu Met Leu Tyr Val Gln Asn Ser  
180 185 190  
Leu Phe Leu Phe Phe Thr Ile Ala Tyr Ile Leu Gln Ser Tyr Ile Leu  
195 200 205  
Leu Leu Lys Ala Ile Phe Gln Val Pro Ser Ala Ala Gly Arg Arg Lys  
210 215 220  
Ala Phe Ser Thr Cys Gly Ser His Leu Val Val Val Ser Leu Phe Tyr  
225 230 235 240  
Gly Thr Val Met Ile Met Tyr Met Ser Pro Thr Tyr Gly Ile Ser Thr  
245 250 255  
Leu Met Gln Lys Ile Leu Thr Leu Val Tyr Ser Val Met Thr Pro Leu  
260 265 270  
Phe Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Leu Ala  
275 280 285  
Leu Arg Lys Val Leu Leu Gly Met Arg Ile Val Lys Asn Ile  
290 295 300

<210> 2203  
<211> 318  
<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (177)...(183)

<223> Any amino acid

<400> 2203

Met	Lys	Thr	Leu	Asn	Ser	Pro	Ser	Asn	Ser	Ser	Thr	Ile	Thr	Gly	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Phe	Pro	Cys	Pro	Arg	Glu	Gly	Gln	Ile	Leu	Leu	Phe
			20					25					30		
Val	Thr	Phe	Phe	Val	Val	Tyr	Leu	Leu	Ile	Leu	Met	Gly	Asn	Ala	Ser
		35					40					45			
Ile	Ile	Cys	Ala	Val	Tyr	Cys	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Leu	Leu	Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Ser
65				70						75					80
Thr	Val	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Val	Ile
				85					90					95	
Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Phe	Gly
			100					105					110		
Ser	Thr	Glu	Cys	Phe	Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu
		115					120					125			
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Ser	Leu	Met	Thr	Arg	His	Leu
	130					135					140				
Cys	Asn	Thr	Leu	Val	Ile	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe
145					150					155					160
Pro	Val	Pro	Ile	Ile	Ile	Ile	Ser	Gln	Met	Ser	Phe	Trp	Trp	Val	Gln
				165					170					175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Pro
			180					185					190		
Gly	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Arg	Ala	Pro	Leu	Met	Glu	Val
		195					200					205			
Phe	Trp	Thr	Ile	Ile	Met	Ser	Ile	Leu	Leu	Val	Ile	Pro	Phe	Leu	Phe
	210					215					220				
Ile	Met	Gly	Ser	Tyr	Ile	Leu	Val	Leu	Arg	Thr	Val	Phe	Arg	Leu	Pro
225					230					235					240
Ser	Arg	Asp	Gly	Gln	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Val
				245					250					255	
Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Val	Met	Ile	Met	Tyr	Met	Ser
			260					265					270		
Pro	Thr	Ser	Gly	His	Glu	Ala	Gly	Met	Gln	Lys	Ile	Val	Thr	Leu	Phe
		275					280					285			
Tyr	Ser	Val	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ile	Tyr	Ser	Leu	Arg
	290					295					300				
Asn	Lys	Asp	Met	Lys	Asn	Ala	Leu	Gln	Lys	Ile	Leu	Arg	Thr		
305					310					315					

<210> 2204

<211> 142

<212> PRT

<213> Mus musculus

<400> 2204

Met	Asn	Val	Ser	Glu	Gly	Ser	Thr	Val	Thr	Tyr	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Phe	Pro	Gly	Pro	Trp	Lys	Ile	Gln	Ile	Thr	Leu	Phe	Ser	Leu	Ile	Leu
			20					25					30		
Leu	Leu	Tyr	Met	Ile	Thr	Leu	Thr	Gly	Asn	Met	Ala	Ile	Ile	Cys	Ala
		35					40					45			
Val	Arg	Trp	Asn	Gln	Gln	Leu	His	Thr	Pro	Met	Tyr	Met	Phe	Leu	Ala
	50					55					60				

Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Cys	Thr	Val	Pro	Asn
65					70					75				80	
Met	Leu	Val	Asn	Ser	Leu	Ser	Lys	Thr	Lys	Thr	Ile	Ser	Phe	Thr	Gly
			85						90					95	
Cys	Phe	Thr	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Phe	Leu	Cys	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Thr	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	His	Tyr	Pro	Ser	Ile	Met	Thr	Arg	Gln	Phe	Cys	Ser		
	130					135					140				

<210> 2205

<211> 304

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (81)...(90)

<223> Any amino acid

<400> 2205

Met	Asn	Ser	Ser	Ser	Thr	Ser	Asp	Phe	Ile	Leu	Leu	Gly	Leu	Ser	Thr
1			5						10					15	
Asn	Pro	Trp	Met	Gln	Lys	Pro	Leu	Phe	Gly	Ile	Phe	Ile	Ile	Met	Tyr
			20					25					30		
Leu	Val	Thr	Val	Met	Gly	Asn	Val	Leu	Ile	Ile	Leu	Val	Ile	Arg	Ser
		35				40						45			
Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ser
	50					55					60				
Phe	Met	Asp	Ile	Cys	Phe	Thr	Thr	Val	Ile	Val	Pro	Lys	Met	Leu	Val
65					70					75					80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Leu	Val	Gln	Met	Tyr
			85						90					95	
Phe	Phe	Leu	Ala	Leu	Ala	Asn	Thr	Asp	Ser	Tyr	Leu	Leu	Ala	Ser	Met
			100					105					110		
Ala	Ile	Asp	Arg	Leu	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Asp	Val
		115					120					125			
Val	Met	Arg	Ser	Gln	Arg	Cys	Leu	Leu	Met	Leu	Leu	Gly	Ser	Cys	Thr
	130					135					140				
Ile	Ser	His	Leu	His	Ala	Leu	Phe	Arg	Val	Leu	Leu	Met	Ser	Arg	Leu
145				150						155					160
Ser	Phe	Cys	Ala	Ser	His	Val	Ile	Lys	His	Phe	Phe	Cys	Asp	Thr	Gln
			165						170					175	
Pro	Val	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Ser	Ser	Gln	Ile	Val
			180					185					190		
Val	Met	Thr	Glu	Thr	Leu	Ala	Val	Ile	Val	Thr	Pro	Phe	Leu	Cys	Ile
		195					200					205			
Leu	Phe	Ser	Tyr	Met	Lys	Ile	Ile	Val	Thr	Val	Leu	Arg	Ile	Pro	Ser
	210				215						220				
Ala	Ala	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr
225					230					235					240
Val	Val	Ala	Leu	Phe	Tyr	Gly	Ser	Val	Ile	Tyr	Val	Tyr	Phe	Arg	Pro
			245						250					255	
Leu	Ser	Met	Tyr	Ser	Val	Val	Lys	Asp	Arg	Ile	Ala	Thr	Val	Met	Tyr
			260					265					270		
Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn
		275					280					285			

Lys Asp Met Lys Arg Gly Leu Arg Lys Leu Lys Asp Arg Leu His Ser  
 290 295 300

<210> 2206  
 <211> 297  
 <212> PRT  
 <213> Mus musculus  
 <220>  
 <221> VARIANT  
 <222> (255)...(285)  
 <223> Any amino acid

<400> 2206  
 Met Leu Arg Glu Asn Gln Ser His Met Thr Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Thr Ser Asn Pro Lys Gln Gln Val Trp Leu Phe Ala Ser Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Val Asn Val Ile Gly Asn Ser Val Ile Ile Ala Ser  
 35 40 45  
 Ile Gln Arg Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Leu Val Asp Ile Cys Phe Thr Thr Val Ile Val Pro Gln  
 65 70 75 80  
 Met Leu Val Asn Leu Leu Thr Gln Arg Lys Thr Ile Leu Phe Ala Gln  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Val Ala Phe Gly Ile Thr Asp Ser  
 100 105 110  
 Phe Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu His Tyr Asn Thr Val Met Ser Pro Arg Arg Cys Arg Leu Leu  
 130 135 140  
 Val Val Ala Ser Trp Ala Val Ser His Leu His Ser Leu Thr His Thr  
 145 150 155 160  
 Ile Leu Met Gly Arg Leu Ser Phe Cys Gly Pro Asn Val Ile His His  
 165 170 175  
 Phe Phe Cys Asp Val Gln Pro Leu Leu Thr Leu Ser Cys Ser Asp Thr  
 180 185 190  
 Ser Ile Asn Glu Leu Leu Ala Phe Thr Glu Gly Ser Val Val Ile Met  
 195 200 205  
 Ser Pro Phe Ser Leu Leu Gly Gly Ser Tyr Ile Tyr Ile Thr Arg Thr  
 210 215 220  
 Val Leu Arg Val Pro Ser Gly Glu Gly Arg Asp Lys Val Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Val Val Ala Leu Val Tyr Gly Thr Xaa Xaa  
 245 250 255  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 260 265 270  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Met Lys Gln  
 275 280 285  
 Ala Leu Arg Lys Leu Ala Lys Arg Thr  
 290 295

<210> 2207  
 <211> 165  
 <212> PRT  
 <213> Mus musculus

<400> 2207

Met	Lys	Phe	Thr	Glu	Ile	Arg	Ala	Glu	Asp	Asn	Ala	Ser	Thr	Val	Thr
1				5					10					15	
Glu	Phe	Leu	Leu	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Ile	
			20				25					30			
Leu	Phe	Gly	Met	Phe	Ser	Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Val	Gly	Asn
		35					40					45			
Ser	Phe	Ile	Ile	Val	Ile	Thr	Arg	Ile	Asp	Pro	Ala	Leu	Gln	Lys	Pro
		50				55				60					
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65				70						75					80
Ser	Val	Thr	Leu	Pro	Arg	Ile	Leu	Phe	Ser	Ile	Ala	Ala	Gln	Glu	Arg
				85					90					95	
Lys	Ile	Ser	Val	Leu	Ser	Tyr	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Met
			100					105					110		
Leu	Gly	Ala	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro
	130				135						140				
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Ala	Ser	Trp	Leu	Gly	Gly	Ile	Pro
145					150					155					160
Val	Gln	Ile	Gly	Gln											
				165											

<210> 2208

<211> 143

<212> PRT

<213> Mus musculus

<400> 2208

Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Asp	Leu	Phe	Lys	Gln	Glu	Lys	Leu
1				5					10					15	
Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Thr	Leu	Leu	Gly	Phe	Ser	Asn	Val
			20					25				30			
Pro	His	Leu	Gln	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met	Tyr	Met	Thr
		35					40					45			
Ile	Leu	Leu	Trp	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys	Thr	Asp	Pro
		50				55					60				
Ala	Leu	Gln	Thr	Pro	Ile	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser	Phe	Leu
65				70						75					80
Glu	Ile	Cys	Tyr	Val	Thr	Val	Thr	Ile	Pro	Arg	Met	Leu	Met	Asp	Leu
				85					90					95	
Tyr	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Val	Phe	Ala	Cys	Ala	Thr	Gln	Met
		100						105					110		
Tyr	Phe	Val	Leu	Met	Leu	Gly	Ala	Thr	Glu	Cys	Leu	Leu	Leu	Ala	Ala
		115					120					125			
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Gly	Tyr	Leu	Pro	Pro	Ser	Pro	Ile	
	130					135					140				

<210> 2209

<211> 164

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (131)...(137)  
 <223> Any amino acid

<400> 2209

Met	Gln	Ser	Lys	Tyr	Val	Asn	Leu	Gln	Arg	Ala	Asn	Lys	Phe	Lys	Ile
1				5					10					15	
Thr	Asp	Thr	Asn	Leu	Ser	Val	Pro	Ile	Glu	Phe	Val	Leu	Leu	Gly	Phe
			20					25					30		
Ser	Asp	Ile	Pro	Gln	Leu	His	Trp	Phe	Leu	Phe	Gly	Ile	Phe	Phe	Phe
		35					40					45			
Ile	Tyr	Met	Ser	Ile	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Leu	Ile	Thr
	50					55					60				
Arg	Val	Glu	Pro	Thr	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Asn
65					70					75					80
Leu	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val	Ser	Val	Thr	Leu	Pro	Arg	Met
				85					90					95	
Leu	Met	Asp	Leu	Phe	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Phe	Leu	Ala	Cys
			100					105					110		
Ala	Thr	Gln	Met	Cys	Leu	Phe	Leu	Ile	Leu	Gly	Gly	Thr	Glu	Cys	Phe
		115					120					125			
Leu	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Met	Met	Ile	Cys	Ala	Tyr	Cys
	130					135					140				
Val	Leu	Cys	Phe	Val	Gln	Leu	Ile	Cys	Leu	Gly	Gly	Leu	Leu	His	Ser
145					150					155					160
Gly	Ile	Gln	Lys												

<210> 2210

<211> 297

<212> PRT

<213> Mus musculus

<400> 2210

Ala	Arg	Glu	Ile	Ala	Pro	Ser	Leu	Asp	Glu	Phe	Ile	Phe	Leu	Gly	Ile
1				5					10					15	
Thr	Asn	Asn	Pro	Phe	Ile	Thr	Leu	Leu	Leu	Val	Tyr	Leu	Ile	Asn	Leu
			20					25					30		
Leu	Ala	Asn	Leu	Gly	Met	Ile	Ile	Leu	Thr	Arg	Val	Asp	Thr	Gln	Leu
		35					40					45			
His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	His	Leu	Ser	Phe	Cys	Asp	Leu
	50					55					60				
Cys	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys	Met	Leu	Val	Asn	Leu	Leu	Ala
65					70					75					80
Glu	Glu	Lys	Phe	Ile	Ser	Thr	Gly	Gly	Cys	Ala	Leu	Gln	Phe	Phe	Thr
			85					90						95	
Leu	Cys	Ala	Phe	Val	Asp	Ser	Glu	Cys	Leu	Leu	Leu	Ala	Val	Thr	Ala
			100					105					110		
Tyr	Asp	Arg	Tyr	Gln	Ala	Ile	Ser	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Asn
		115					120					125			
Met	Phe	Ser	Arg	Leu	Cys	Ser	Leu	Leu	Met	Ala	Gly	Val	Tyr	Leu	Val
	130					135					140				
Gly	Thr	Ala	Asp	Thr	Leu	Ile	His	Thr	Thr	Leu	Ala	Phe	Ser	Leu	Cys
145					150					155					160
Phe	Cys	Asp	Ile	Asn	Gln	Phe	Phe	Cys	Asp	Val	Pro	Ser	Leu	Val	Leu
				165					170					175	
Ile	Ser	Cys	Ser	Glu	Thr	Glu	Val	Asn	Glu	Ala	Ile	Ser	Thr	Ile	Leu
			180					185					190		
Phe	Ile	Glu	Leu	Asn	Ile	Ile	Ser	Gly	Leu	Leu	Val	Ser	Tyr	Cys	Tyr





<210> 2212  
 <211> 301  
 <212> PRT  
 <213> Mus musculus

<400> 2212  
 Met Asn Gln Thr Trp Ile Thr Glu Val Ile Leu Leu Gly Phe Gln Val  
 1 5 10 15  
 Asp Pro Ser Leu Glu Met Leu Leu Phe Gly Leu Phe Leu Phe Tyr  
 20 25 30  
 Cys Leu Thr Leu Met Gly Asn Gly Ile Ile Leu Gly Leu Ile Cys Leu  
 35 40 45  
 Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala  
 50 55 60  
 Ile Val Asp Met Ser Tyr Ala Ser Ser Thr Ala Ala Pro Lys Met Leu  
 65 70 75 80  
 Thr Asn Met Val Met His Gln Lys Ser Ile Ser Phe Ala Ser Cys Ile  
 85 90 95  
 Leu Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Val Ile  
 100 105 110  
 Leu Val Val Met Ser Cys Asp Arg Phe Val Val Ile Cys His Pro Leu  
 115 120 125  
 Lys Tyr Thr Leu Ile Met Ser Trp Arg Val Phe Val Ile Leu Ala Ala  
 130 135 140  
 Thr Cys Trp Val Phe Ser Phe Leu Leu Ala Ser Leu His Thr Lys Leu  
 145 150 155 160  
 Ile Leu Arg Leu Pro Phe Cys Gly Pro Gln Asn Val Asn His Phe Phe  
 165 170 175  
 Phe Cys Gln Ile Met Ser Val Phe Arg Leu Ala Cys Ala Asp Thr Arg  
 180 185 190  
 Leu Asn Val Ile Leu Phe Ala Gly Ser Val Met Val Leu Leu Gly Pro  
 195 200 205  
 Leu Cys Leu Leu Leu Val Ser Tyr Thr Ile Leu Val Val Ile Leu Gly  
 210 215 220  
 Ile His Ser Arg Glu Gly Arg Arg Asn Ser His Leu Cys Val Val Gly  
 225 230 235 240  
 Leu Phe Phe Gly Cys Ala Ile Ser Met Tyr Met Val Pro Ser Lys His  
 245 250 255  
 Ser Gln Glu Gln Arg Lys Ile Leu Ser Leu Phe His Ser Leu Phe Asn  
 260 265 270  
 Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Thr Glu Val Lys  
 275 280 285  
 Ala Ala Leu Arg Ser Val Leu Trp Lys Gln Arg Ser Leu  
 290 295 300

<210> 2213  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2213  
 Met Val Pro Met Glu Arg Asn Val Ser Val Glu Ile Ile Phe Ser Leu  
 1 5 10 15  
 Leu Gly Phe Thr Asp Tyr Pro Glu Leu Gln Ile Pro Leu Phe Leu Ile  
 20 25 30  
 Phe Leu Phe Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile



Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Leu	Tyr	Pro	Leu	Ile	Met	Asn	Pro
130						135					140				
Thr	Lys	Cys	Lys	Gln	Leu	Ala	Ala	Val	Ser	Trp	Leu	Gly	Gly	Met	Pro
145					150					155					160
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Met	Asn	Phe	Cys	Asn
				165					170					175	
Ser	Tyr	Lys	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Lys
			180					185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Val
		195					200					205			
Leu	Met	Val	Val	Ala	Ala	Phe	Pro	Phe	Ile	Leu	Val	Leu	Ala	Ser	Tyr
		210				215					220				
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg
225					230					235					240
Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Met	Val	Val	Leu	Leu
				245					250					255	
Phe	Tyr	Gly	Ser	Ala	Thr	Val	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Met	His
			260					265					270		
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr
		275					280					285			
Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
		290				295					300				
Ser	Ala	Leu	Arg	Lys	Leu	Phe	Lys	Thr	Tyr	Tyr					
305					310				315						

<210> 2215  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2215

Met	Glu	Val	Gly	Asn	Cys	Ser	Ala	Thr	Glu	Phe	Leu	Phe	Leu	Gly	Ile
1				5					10					15	
Thr	Asn	Asn	Pro	Val	Ile	Lys	Val	Ile	Leu	Phe	Thr	Thr	Phe	Leu	Ile
			20					25					30		
Val	Tyr	Leu	Ile	Ile	Leu	Ile	Glu	Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile
		35					40					45			
Arg	Met	Asn	His	Gln	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
		50				55				60					
Leu	Ser	Phe	Ser	Asp	Val	Cys	Tyr	Ser	Ser	Ala	Val	Gly	Pro	Lys	Met
65					70					75					80
Leu	Leu	Asp	Leu	Leu	Ala	Lys	Ser	Ser	Asn	Ser	Ile	Thr	Phe	Leu	Gly
				85					90					95	
Cys	Val	Leu	Gln	Phe	Phe	Ile	Phe	Cys	Ile	Phe	Thr	Asp	Val	Glu	Cys
			100					105					110		
Met	Leu	Leu	Ala	Met	Met	Ala	Phe	Asp	Arg	Tyr	Lys	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Ala	Val	Asp	Met	Ser	Ser	Lys	Val	Cys	Tyr	Gln	Leu
		130				135					140				
Leu	Ala	Val	Val	Tyr	Thr	Val	Ala	Ile	Val	Asp	Ala	Val	Val	His	Thr
145					150					155					160
Thr	Leu	Thr	Phe	Arg	Leu	Cys	Phe	Cys	Gly	Ser	Lys	Glu	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Tyr	Met	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Gln	Val	Asn	Glu	Leu	Ala	Leu	Phe	Thr	Val	Phe	Gly	Phe	Ile	Glu	Leu
		195					200					205			
Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Leu	Ser

210		215		220											
Val	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Phe	Ser	Thr
225		230		235											240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Thr	Met	Leu
			245						250					255	
Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asp	Gln	Asp	Lys
			260					265					270		
Met	Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Val	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Gln	Lys	Leu
	290					295					300				
Lys	Thr	Lys	Thr	Trp	Phe										
305					310										

<210> 2216

<211> 307

<212> PRT

<213> Mus musculus

<400> 2216

Met	Lys	Gln	Glu	Glu	Leu	Glu	Ser	Ile	Asp	Asn	Val	Ser	Thr	Val	Ile
1				5					10					15	
Gln	Phe	Val	Leu	Gly	Phe	Ser	Tyr	Leu	Pro	Ile	Leu	Gln	Glu	Phe	
			20				25					30			
Leu	Phe	Ala	Val	Phe	Phe	Val	Val	Tyr	Ile	Ile	Ile	Leu	Ile	Gly	Asn
		35					40					45			
Phe	Leu	Ile	Ile	Leu	Val	Thr	Ser	Met	Asp	Ser	Ala	Leu	Gln	Lys	Pro
	50					55				60					
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65				70						75					80
Arg	Ile	Leu	Phe	Asp	Ile	Glu	Lys	Gln	Asp	Arg	Arg	Ile	Ser	Leu	Met
			85						90					95	
Ser	Cys	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Val	Phe	Gly	Thr	Thr	Glu
			100					105					110		
Cys	Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115						120					125			
Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro	Thr	Lys	Cys	Thr	Gln
	130					135					140				
Leu	Ala	Ala	Gly	Ser	Trp	Leu	Gly	Gly	Ile	Pro	Val	Gln	Ile	Gly	Gln
145					150					155					160
Thr	Cys	Gln	Ile	Phe	Ser	Met	His	Phe	Cys	Asn	Ser	Asn	Gln	Ile	Glu
			165						170					175	
His	Phe	Phe	Cys	Asp	Ile	Pro	Ile	Ile	Leu	Lys	Leu	Ala	Cys	Gly	Asn
			180					185					190		
Thr	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Glu	Gly	Val	Val	Ala	Ala	Phe
	195						200					205			
Pro	Phe	Ile	Leu	Val	Leu	Thr	Ser	Tyr	Ser	Lys	Ile	Ile	Ala	Met	Ile
	210					215					220				
Leu	Arg	Leu	Pro	Thr	Ala	Gln	Gly	Arg	Ala	Lys	Ala	Phe	Ser	Thr	Cys
225				230						235					240
Ser	Ser	His	Leu	Leu	Val	Val	Leu	Leu	Phe	Tyr	Gly	Ser	Ala	Ala	Val
			245						250					255	
Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Met	His	Ser	Pro	Val	Thr	Asp	Lys	Leu
		260					265						270		
Ile	Ser	Leu	Phe	Tyr	Thr	Thr	Met	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Ala	Ala	Leu	Arg	Lys	Leu	Ile
	290					295					300				

Leu Lys Lys  
305

<210> 2217  
<211> 232  
<212> PRT  
<213> Mus musculus

<400> 2217  
Met Asp Lys Glu Asn Cys Ser Ser Leu Pro Glu Phe Phe Leu Leu Gly  
1 5 10 15  
Ile Ser Ser Lys Tyr Gly Val Lys Val Val Leu Phe Val Val Phe Leu  
20 25 30  
Leu Val Tyr Leu Thr Thr Leu Leu Glu Asn Ile Gly Met Ile Ala Leu  
35 40 45  
Ile Arg Met Asp Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
His Leu Ser Phe Ser Asp Leu Cys Tyr Ser Thr Ala Val Gly Pro Arg  
65 70 75 80  
Met Leu Val Asp Leu Val Ala Glu Lys His Ser Ile Pro Phe Thr Gly  
85 90 95  
Cys Phe Leu Gln Leu Leu Phe Val Tyr Val Phe Ile Asp Val Glu Cys  
100 105 110  
Met Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ser Lys  
115 120 125  
Pro Leu Leu Tyr Ser Val Asp Met Ser Ser Lys Val Cys Tyr Gln Phe  
130 135 140  
Leu Thr Leu Ile Tyr Leu Thr Ser Thr Ile Asp Gly Leu Ile His Thr  
145 150 155 160  
Thr Leu Ala Phe Asn Leu Cys Phe Cys Gly Ser Thr Gln Ile Asn His  
165 170 175  
Phe Phe Cys Asp Leu Pro Pro Leu Tyr Leu Leu Ser Cys Ser Asp Thr  
180 185 190  
Gln Ala Asn Glu Leu Val Val Phe Thr Leu Phe Gly Phe Ile Glu Leu  
195 200 205  
Ser Thr Ile Ser Ser Val Leu Val Ser Tyr Cys Tyr Ile Ile Ser Ser  
210 215 220  
Val Leu Lys Ile Ser Ser Ala Gly  
225 230

<210> 2218  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 2218  
Val Lys Gln Glu Glu Leu Glu Ser Ile Tyr Asn Val Ser Thr Val Met  
1 5 10 15  
Gln Phe Val Leu Leu Gly Phe Ser Asp Leu Pro Asn Leu Gln Gly Phe  
20 25 30  
Leu Tyr Ala Leu Phe Phe Val Val Phe Ile Ile Ile Leu Ile Asn Phe  
35 40 45  
Leu Ile Ile Leu Val Thr Cys Met Asp Pro Ala Leu Gln Lys Ser Ile  
50 55 60  
Tyr Leu Phe Leu Ala Tyr Phe Ser Ser Leu Glu Ile Cys Tyr Val Ser  
65 70 75 80  
Val Thr Leu Pro Lys Thr Leu Phe Cys Ile Glu Met Gln Tyr Arg Thr



Val	Leu	Leu	Leu	Trp	Ile	Cys	Tyr	Ser	Tyr	Arg	Pro	Thr	Ser	Leu	Cys
			180					185					190		
Ser	Ser	Arg	Thr	Asp	Lys	Leu	Phe	Ser	Leu	Phe	Tyr	Ala	Val	Val	Ile
		195					200					205			
Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr
	210					215					220				
Ala	Ala	Leu	Arg	Lys	Leu	Ile	Leu								
225					230										

<210> 2220  
 <211> 246  
 <212> PRT  
 <213> Mus musculus

Leu	Cys	Tyr	Thr	Ala	Val	Val	Val	Pro	His	Ile	Leu	Ala	Asn	Asn	Phe
1				5					10					15	
Gln	Ser	Glu	Lys	Thr	Ile	Ser	Leu	Leu	Ser	Cys	Ala	Thr	Gln	Met	Val
			20					25					30		
Phe	Leu	Ile	Gly	Leu	Gly	Ser	Ala	Asp	Cys	Phe	Leu	Leu	Ala	Ile	Met
	35						40					45			
Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Gln	Tyr	Pro	Leu
	50					55					60				
Ile	Met	Thr	Ile	Thr	Leu	Cys	Val	Arg	Leu	Val	Val	Ala	Ser	Val	Val
65					70				75						80
Ile	Gly	Leu	Phe	Leu	Ser	Leu	Gln	Leu	Val	Val	Phe	Ile	Phe	Cys	Leu
			85					90						95	
Pro	Phe	Cys	Gln	Asp	Arg	Gly	Ile	Glu	His	Phe	Phe	Cys	Asp	Ala	Pro
			100					105					110		
Pro	Leu	Met	Arg	Leu	Val	Cys	Ala	Thr	Ser	His	Ile	His	Glu	Leu	Ser
	115						120					125			
Val	Leu	Met	Ala	Ala	Thr	Leu	Ala	Ile	Ala	Val	Pro	Phe	Phe	Phe	Ile
	130					135					140				
Ala	Thr	Thr	Tyr	Ala	Leu	Ile	Val	Ala	Ala	Val	Leu	Lys	Leu	His	Ser
145					150					155					160
Ala	Ala	Gly	Arg	His	Arg	Ala	Phe	Asn	Thr	Cys	Ser	Ser	His	Leu	Thr
				165				170						175	
Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Cys	Ala	Phe	Met	Tyr	Leu	Arg	Pro
			180					185					190		
Val	Ser	Ser	Tyr	His	Pro	Lys	Gln	Asp	Gln	Phe	Val	Ser	Leu	Val	Tyr
	195						200					205			
Thr	Leu	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
	210					215					220				
Ser	Glu	Met	Lys	Gly	Ala	Ile	Gly	Lys	Val	Leu	Thr	Arg	Lys	Tyr	Leu
225					230					235					240
Ser	Trp	Lys	Met	Ile	Gly										
				245											

<210> 2221  
 <211> 279  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (151)...(157)  
 <223> Any amino acid

<400> 2221

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Met Ala Lys Val Asn Leu Thr Leu Val Thr Glu Phe Leu Leu Ile Ala
 1          5          10          15
Phe Thr Glu His Pro Glu Trp Gly Leu Pro Leu Phe His Leu Phe Leu
          20          25          30
Phe Ile Tyr Leu Phe Thr Leu Leu Gly Asn Ser Gly Met Ile Val Leu
          35          40          45
Ile Arg Met Asp Arg Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser
          50          55          60
His Leu Ser Phe Met Asp Ile Cys Tyr Ser Ser Val Thr Val Pro Gln
65          70          75          80
Thr Met Ala Val Leu Leu Glu His Gly Ala Ala Leu Ser Tyr Ala Arg
          85          90          95
Cys Val Ala Gln Phe Phe Leu Phe Thr Phe Phe Gly Ser Ile Asp Cys
          100          105          110
Tyr Leu Leu Ala Leu Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Gln
          115          120          125
Pro Leu Leu Tyr Val Thr Ile Met Thr Gln Lys Ala Leu Leu Ser Phe
          130          135          140
Val Val Gly Leu Thr Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Glu Ser
145          150          155          160
Tyr Ile Gln Glu Leu Val Ile Ile Val Phe Ala Ile Phe Val Ile Pro
          165          170          175
Cys Ser Met Val Val Ile Val Val Ser Tyr Leu Phe Ile Ile Val Ala
          180          185          190
Ile Leu Arg Ile Pro Ser Ala Gly Gly Arg Ala Lys Thr Phe Ser Thr
          195          200          205
Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Phe Gly Thr Leu Ile
          210          215          220
Phe Met Tyr Leu Arg Asp Asn Ser Gly Gln Ala Ser Glu Lys Asp Arg
225          230          235          240
Val Val Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu
          245          250          255
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Lys Asn Phe
          260          265          270
Leu Asn Arg Val Lys Thr Phe
          275
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<210> 2222

<211> 292

<212> PRT

<213> Mus musculus

<400> 2222

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Leu Phe Val Leu Val Leu Ile Ser Tyr Leu Leu Thr Leu Val Gly Asn
 1          5          10          15
Thr Ala Ile Ile Leu Val Ser Cys Leu Asp Ser Ala Leu Gln Thr Pro
          20          25          30
Met Tyr Tyr Phe Leu Thr Asn Leu Ser Phe Val Asp Ile Cys Phe Ser
          35          40          45
Thr Ser Ile Val Pro Gln Leu Leu Trp Asn Leu His Gly Pro Ala Lys
          50          55          60
Thr Ile Thr Ala Thr Gly Cys Ala Ile Gln Leu Tyr Val Ser Leu Ala
65          70          75          80
Leu Gly Ser Thr Glu Cys Val Leu Leu Ala Val Met Ala Phe Asp Arg
          85          90          95
Tyr Ala Ala Val Cys Arg Pro Leu His Tyr Ala Thr Val Met His Pro
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Ala	Cys	Phe	Thr	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
210						215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Gly	Ala
				245						250				255	
Phe	Ala	Tyr	Leu	Asn	Leu	Thr	Ser	Asp	Ser	Ser	Thr	Ala	Leu	Glu	Phe
			260					265					270		
Leu	Leu	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Thr	Ile	Lys	Asn	Val	Val	Arg	Lys	Leu
	290				295						300				
Leu	Leu	Ser	Thr	Lys	Phe	Thr	Val	Arg	Ile	Ile	Phe	Phe	Ser	Cys	Cys
305					310					315					320
Phe															

<210> 2224  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (92)...(124)  
 <223> Any amino acid

<400> 2224

Met	Glu	Gly	Lys	Asn	Gln	Thr	Ala	Pro	Ser	Glu	Phe	Ile	Ile	Leu	Gly
1				5					10					15	
Phe	Asp	His	Leu	Asn	Glu	Leu	Gln	Tyr	Leu	Leu	Phe	Thr	Ile	Phe	Phe
			20					25					30		
Leu	Thr	Tyr	Ile	Cys	Thr	Leu	Gly	Gly	Asn	Val	Phe	Ile	Ile	Val	Val
		35					40					45			
Thr	Ile	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Gly
	50					55					60				
Asn	Leu	Ala	Leu	Ile	Asp	Ile	Cys	Tyr	Thr	Thr	Asn	Val	Pro	Gln	
65				70					75					80	
Met	Met	Val	His	Leu	Ser	Glu	Lys	Lys	Ile	Xaa	Xaa	Xaa	Xaa	Xaa	
			85					90					95		
Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Phe	Leu	Asn	
		115					120				125				
Ser	Val	Leu	His	Thr	Val	Leu	Thr	Phe	His	Leu	Pro	Phe	Cys	Gly	Asn
	130					135					140				
Asn	Gln	Ile	Asn	Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ile	Leu
145					150				155						160
Ser	Cys	Gly	Asp	Thr	Ser	Leu	Asn	Glu	Leu	Ala	Leu	Leu	Ser	Ile	Gly
			165					170						175	
Ile	Leu	Ile	Gly	Trp	Thr	Pro	Phe	Leu	Cys	Ile	Ile	Leu	Ser	Tyr	Leu
		180						185					190		
Tyr	Ile	Ile	Ser	Thr	Ile	Leu	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Gln
	195						200					205			
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Leu	Ile	Val	Ile	Leu	Tyr
	210					215					220				
Tyr	Gly	Ser	Ala	Ile	Phe	Thr	Tyr	Val	Arg	Pro	Ile	Ser	Ser	Tyr	Ser
225					230					235					240

Leu	Glu	Lys	Asp	Arg	Leu	Ile	Ser	Val	Leu	Tyr	Ser	Val	Phe	Thr	Pro
				245					250					255	
Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ala	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Glu
			260					265					270		
Ala	Val	Lys	Ala	Ile	Gly	Arg	Lys	Trp	Gln	Pro	Pro	Val	Phe	Ser	Ser
		275					280					285			
Asp	Met														
	290														

<210> 2225

<211> 320

<212> PRT

<213> Mus musculus

<400> 2225

Met	Ser	Ile	Asn	Cys	Ser	Leu	Trp	Gln	Glu	Asn	Ser	Leu	Ser	Val	Lys
1				5					10					15	
Arg	Phe	Ala	Phe	Ala	Lys	Phe	Ser	Glu	Val	Pro	Gly	Glu	Cys	Phe	Leu
			20					25					30		
Leu	Phe	Thr	Leu	Ile	Leu	Leu	Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn
		35					40					45			
Ala	Leu	Ile	Ala	Leu	Val	Ile	Cys	Thr	Asn	Pro	Ser	Leu	His	Asn	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr
65				70					75						80
Cys	Ser	Val	Ile	Pro	Lys	Met	Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg
				85					90					95	
Glu	Ile	Ser	Arg	Glu	Gly	Cys	Ala	Thr	Gln	Met	Phe	Phe	Phe	Thr	Phe
			100					105					110		
Phe	Gly	Ile	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Cys	Met	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Thr	Arg	Met	Ser	Ser
	130					135					140				
Gly	Val	Cys	Ala	His	Leu	Ala	Ile	Val	Ser	Trp	Gly	Met	Gly	Cys	Ile
145					150					155					160
Val	Gly	Leu	Gly	Gln	Thr	Asn	Phe	Ile	Phe	Ser	Leu	Glu	Phe	Cys	Gly
				165					170					175	
Pro	Cys	Glu	Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala
			180					185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val	Ala
		195					200					205			
Ala	Val	Leu	Cys	Ile	Ser	Ser	Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser	Tyr
	210					215					220				
Val	Arg	Ile	Leu	Val	Ala	Val	Leu	Val	Met	Pro	Ser	Pro	Glu	Gly	Arg
225				230						235					240
His	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Thr	Met
				245					250					255	
Phe	Tyr	Gly	Ser	Ala	Ser	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	His
			260					265					270		
Ser	Pro	Gly	Met	Asp	Lys	Leu	Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val	Thr
		275					280					285			
Ser	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gly	Ser	Lys
	290					295					300				
Gly	Ser	Thr	Glu	Lys	Asn	Thr	Glu	Ser	Glu	Glu	Thr	Ser	Gly	Asn	Lys
305					310					315					320

<210> 2226

<211> 206  
 <212> PRT  
 <213> Mus musculus

<400> 2226

Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu	Pro	Leu	His	Tyr	Glu
1				5					10					15	
Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala	Val	Ala	Ala	Val	Trp
			20					25					30		
Leu	Ser	Gly	Gly	Ile	Ser	Gly	Thr	Leu	Phe	Thr	Ala	Ser	Thr	Leu	Ser
		35					40					45			
Ile	Arg	Phe	Cys	Gly	Asp	Lys	Ile	Ile	His	Gln	Phe	Phe	Cys	Asp	Ile
	50					55					60				
Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp	Phe	Gly	Val	Leu	
65					70				75					80	
Glu	Val	Ser	Ile	Phe	Met	Ala	Val	Met	Ala	Phe	Ala	Cys	Phe	Met	Gly
				85					90					95	
Ile	Ala	Phe	Ser	Tyr	Gly	Gln	Ile	Phe	Ser	Thr	Val	Leu	Arg	Met	Pro
			100					105					110		
Ser	Ala	Glu	Gly	Arg	Ser	Lys	Val	Phe	Ser	Thr	Cys	Leu	Pro	His	Leu
		115					120					125			
Phe	Val	Val	Ser	Phe	Phe	Leu	Ser	Thr	Gly	Ser	Cys	Ala	Tyr	Leu	Lys
	130					135					140				
Pro	Thr	Ser	Asp	Ser	Pro	Thr	Ala	Ser	Asp	Leu	Met	Leu	Ser	Ile	Phe
145					150				155					160	
Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg
				165					170					175	
Asn	Lys	Ser	Leu	Lys	Glu	Ala	Val	Lys	Lys	Leu	Leu	Leu	Ser	Glu	Glu
			180					185					190		
Leu	Val	Gly	Lys	Ile	Tyr	Val	Cys	Ser	Val	Phe	Ser	Ala	Cys		
		195					200					205			

<210> 2227  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2227

Met	Arg	Ser	Asp	Asn	Asp	Ser	Thr	Val	Ser	Glu	Leu	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Gln	Ala	Glu	Asp	Gln	Gly	Met	Tyr	Cys	Ala	Leu	Phe	Leu
			20					25					30		
Thr	Met	Cys	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asn	Phe	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys
65					70				75					80	
Met	Leu	Val	Asn	Met	Leu	Thr	His	Ser	Gln	Phe	Ile	Ser	Tyr	Val	Gly
			85						90					95	
Cys	Ile	Phe	Gln	Leu	Tyr	Phe	Leu	Ser	Thr	Phe	Thr	Asp	Leu	Asp	Ser
			100					105					110		
Phe	Leu	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ile	Ile	Met	Ser	Gln	Asn	Leu	Cys	Ile	Leu	Leu
	130					135					140				
Val	Val	Val	Ser	Thr	Leu	Ser	Ser	Ala	Asn	Ser	Leu	Val	Tyr	Thr	Leu
145					150				155						160

Leu	Leu	Ala	Arg	Phe	Ser	His	Phe	Arg	Asn	Asn	Thr	Thr	Pro	His	Tyr		
				165					170					175			
Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Ile	Ser	Asp	Thr	Thr		
			180					185					190				
Ile	Asn	Glu	Leu	Val	Ile	Phe	Pro	Leu	Gly	Thr	Val	Val	Ile	Ala	Leu		
		195					200					205					
Ala	Phe	Ile	Cys	Ile	Leu	Val	Ser	Tyr	Gly	Arg	Ile	Gly	Ile	Thr	Ile		
	210					215					220						
Leu	Lys	Thr	Pro	Ser	Ile	Arg	Gly	Ile	Cys	Lys	Ala	Leu	Ser	Thr	Cys		
225					230				235						240		
Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Ala	Ile	Thr	Gly		
			245						250					255			
Leu	Tyr	Leu	Val	Pro	Ser	Ser	Asn	Asn	Thr	Asn	Asp	Lys	Asp	Val	Ile		
			260					265					270				
Val	Ala	Val	Ile	Tyr	Ser	Leu	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile		
		275					280					285					
Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Met	Lys	Lys	Ser	Ile	Glu	Lys	Tyr	Ser		
	290					295					300						
Glu	Gln	Glu	Thr	Val	Phe	Thr											
305					310												

<210> 2228

<211> 177

<212> PRT

<213> Mus musculus

<400> 2228

Met	Arg	Arg	Asp	Asn	Glu	Ser	Thr	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly		
1				5					10					15			
Leu	Pro	Ile	Arg	Ala	Glu	Asp	Gln	Asp	Met	Tyr	Ser	Ala	Pro	Phe	Leu		
			20					25					30				
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu		
		35					40					45					
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser		
	50					55					60						
His	Leu	Ala	Phe	Thr	Asp	Ile	Ser	Phe	Ser	Ser	Ala	Thr	Ala	Pro	Lys		
65					70					75					80		
Met	Leu	Arg	Asn	Met	Leu	Ile	His	Ser	His	Phe	Ile	Ser	Tyr	Ala	Gly		
			85						90					95			
Tyr	Val	Ser	Gln	Val	Tyr	Phe	Phe	Thr	Phe	Leu	Arg	Ser	Ile	Asp	Ser		
			100					105					110				
Phe	Leu	Leu	Met	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His		
		115					120					125					
Pro	Leu	His	Tyr	Thr	Ile	Ile	Met	Ser	Gln	Ser	Leu	Cys	Val	Leu	Leu		
	130					135					140						
Val	Ala	Met	Ser	Trp	Thr	Leu	Ser	Phe	Phe	Asn	Ile	Phe	Phe	Ile	Arg		
145					150					155					160		
Tyr	Phe	Ser	His	Leu	His	Phe	Pro	Met	Leu	Cys	Gln	Asn	Ser	His	Ile		
				165					170					175			

Pro

<210> 2229

<211> 314

<212> PRT

<213> Mus musculus

<400> 2229

Leu	Arg	Ala	Thr	Lys	Asn	Lys	Thr	Glu	Val	Thr	Glu	Phe	Val	Leu	Leu
1				5					10					15	
Gly	Leu	Ser	Ser	Arg	Pro	Glu	Met	Gln	Pro	Val	Ile	Phe	Gly	Val	Ile
			20					25					30		
Tyr	Leu	Thr	Ala	Val	Leu	Gly	Asn	Thr	Leu	Leu	Val	Leu	Val	Val	Cys
		35					40					45			
Ser	Asp	Pro	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Ile	Ala	Ile	Cys	Leu	Thr	Thr	Ile	Thr	Val	Pro	Gln	Met	Leu
65					70					75					80
Val	His	Thr	Leu	Ser	Ala	Val	Arg	Asn	Ile	Ser	Tyr	Asn	Cys	Cys	Met
				85					90					95	
Thr	Gln	Leu	Phe	Phe	Met	Ala	Val	Gly	Ser	Met	Glu	Gly	His	Leu	
			100					105					110		
Leu	Ala	Asp	Ile	Ala	Asp	Tyr	Tyr	Val	Ala	Ile	Cys	Asp	Pro	Leu	Arg
		115					120					125			
Tyr	Tyr	Ala	Ile	Val	Ser	His	Ser	Leu	Cys	Leu	Gln	Ile	Thr	Leu	Thr
	130					135					140				
Ser	Trp	Val	Met	Val	Ser	Leu	Asn	Ser	Leu	Leu	Tyr	Ser	Val	Leu	Val
145					150					155					160
Thr	Arg	Leu	Thr	Phe	Cys	Gly	Asn	Lys	Val	Thr	His	Phe	Phe	Cys	Asp
				165					170					175	
Ile	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Arg	Pro	Val	Leu	Asn	Glu
			180					185					190		
Met	Leu	Ile	Phe	Thr	Glu	Gly	Ala	Ala	Val	Val	Gly	Ser	Pro	Phe	Phe
		195					200					205			
Leu	Ile	Trp	Gly	Ser	Tyr	Ala	Arg	Ile	Gly	Ile	Ala	Met	Ala	His	Met
	210					215					220				
His	Ser	Phe	Ala	Ala	Leu	Lys	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His
225					230					235					240
Ile	Leu	Ile	Val	Leu	Leu	Leu	Phe	Gly	Ser	Leu	Ala	Arg	Met	Tyr	Leu
				245					250					255	
Lys	Pro	Ser	Ser	Ser	Tyr	Asp	Leu	Asp	Gln	Asp	His	Gln	Val	Ala	Ile
			260					265					270		
Phe	Tyr	Met	Leu	Ile	Ser	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Arg	Asn	Gln	Asp	Val	Lys	Gly	Ala	Leu	Trp	Arg	Leu	Phe	Arg	Lys	Leu
	290					295					300				
His	Thr	Ser	Asp	Trp	Leu	Leu	Glu	Lys	Gln						
305					310										

<210> 2230

<211> 170

<212> PRT

<213> Mus musculus

<400> 2230

Leu	Thr	Ile	Met	Ala	Gln	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
1				5					10					15	
Leu	Lys	Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Pro	Gln
			20					25					30		
Phe	Phe	Cys	Asp	Ile	Pro	Ser	Leu	Leu	Arg	Leu	Ser	Cys	Ser	Asp	Thr
		35					40					45			
Phe	Asn	Asn	Lys	Leu	Leu	Ile	Leu	Leu	Ser	Ala	Ile	Leu	Val	Ser	Gly
	50					55					60				
Ser	Cys	Phe	Val	Phe	Ile	Val	Ile	Ser	Tyr	Val	Arg	Ile	Leu	Ser	Thr
65					70					75					80

Val	Leu	Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys	Ala	Phe	Ser	Thr	
				85					90					95		
Cys	Val	Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Leu	Ser	Ser	Ala	Ala	
			100					105					110			
Tyr	Ile	Tyr	Leu	Lys	Pro	Pro	Val	Val	Thr	Leu	Glu	Val	Ala	Lys	Glu	
		115					120					125				
Met	Thr	Leu	Ser	Val	Phe	Tyr	Thr	Ile	Val	Pro	Pro	Phe	Leu	Asn	Pro	
	130					135					140					
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Gln	Ile	Lys	Lys	Ala	Val	Ser	Lys	
145					150					155					160	
Leu	Ile	Ser	Arg	Ile	Phe	Phe	Leu	Ile	Met							
				165					170							

<210> 2231

<211> 317

<212> PRT

<213> Mus musculus

<400> 2231

Met	Pro	Asn	Asp	Thr	Arg	Val	Thr	Gly	Phe	Ile	Leu	Met	Gly	Phe	Ser	
1				5					10					15		
Ala	Ala	Pro	Glu	Leu	Gln	Thr	Val	Cys	Gly	Leu	Phe	Phe	Leu	Val	Met	
			20					25					30			
Tyr	Leu	Ala	Val	Ile	Met	Ser	Asn	Leu	Leu	Ile	Ile	Thr	Val	Ile	Thr	
		35					40					45				
Leu	Asp	Leu	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	
	50					55					60					
Ser	Leu	Leu	Asp	Val	Phe	Leu	Val	Ser	Ile	Pro	Ile	Pro	Lys	Phe	Ile	
65					70				75						80	
Ile	Asn	Asn	Leu	Thr	His	Asn	Asn	Tyr	Ile	Ser	Ile	Leu	Gly	Cys	Ala	
				85					90					95		
Phe	Gln	Ile	Leu	Leu	Met	Thr	Ser	Phe	Ser	Ala	Gly	Glu	Ile	Phe	Val	
			100					105					110			
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu	
		115					120					125				
Cys	Tyr	Glu	Ala	Ile	Met	Ser	Ser	Gly	Asn	Cys	Val	Leu	Met	Val	Gly	
	130					135					140					
Val	Ser	Trp	Ala	Thr	Gly	Ile	Leu	Phe	Gly	Ala	Leu	Tyr	Thr	Ala	Gly	
145					150				155						160	
Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Met	Val	Ile	Pro	Gln	Phe	Phe	
				165					170					175		
Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys	Ser	Gly	Ser	Leu	Met	
			180					185					190			
Ile	Ile	Tyr	Ile	Ser	Leu	Gly	Ile	Gly	Met	Cys	Leu	Cys	Met	Ser	Cys	
		195				200						205				
Phe	Tyr	Cys	Val	Met	Ile	Ser	Tyr	Phe	Tyr	Ile	Ile	Ser	Thr	Val	Leu	
	210					215						220				
Lys	Ile	Pro	Thr	Thr	Arg	Gly	Gln	Ser	Lys	Ala	Phe	Ala	Thr	Cys	Ile	
225					230					235					240	
Pro	His	Leu	Thr	Val	Phe	Ser	Val	Phe	Ile	Ala	Thr	Ala	Cys	Phe	Val	
				245					250					255		
Tyr	Leu	Lys	Pro	Pro	Ser	Asp	Ile	Pro	Ser	Ile	Thr	Asp	Arg	Leu	Phe	
			260					265					270			
Ser	Val	Leu	Tyr	Thr	Val	Leu	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	
		275					280					285				
Ser	Leu	Arg	Asn	Ser	Asp	Val	Lys	Cys	Ser	Leu	Arg	Arg	Leu	Gln	Gln	
	290					295					300					
Asn	Leu	Cys	Pro	Arg	Asp	Ser	Tyr	Tyr	Leu	Thr	Val	Gln				

305

310

315

&lt;210&gt; 2232

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2232

```

Met His Phe Gln Thr Met Ala Asn Thr Ser Ile Val Thr Glu Phe Phe
 1           5           10           15
Leu Glu Gly Phe Cys Thr Trp Glu Leu Arg Val Leu Leu Ser Val Leu
      20           25           30
Phe Leu Leu Val Tyr Leu Cys Ser Leu Leu Gly Asn Ile Thr Ile Ile
      35           40           45
Ile Val Thr Thr Val Asp Gln Thr Leu Lys Thr Pro Met Tyr Phe Phe
      50           55           60
Leu Arg Asn Leu Ser Ile Leu Asp Met Cys Tyr Ile Ser Ile Thr Val
      65           70           75           80
Pro Ser Ala Cys Ile Asn Ser Leu Thr Asp His Arg Asn Ile Ser Val
      85           90           95
Ala Gly Cys Ala Ala Gln Ile Phe Ser Phe Leu Phe Cys Ala Leu Val
      100          105          110
Glu Ile Phe Phe Phe Met Ala Gln Asp Arg Tyr Val Ala Ile Cys
      115          120          125
Lys Pro Leu Leu Tyr Pro Val Ile Met Asn His Gln Phe Cys Val Gln
      130          135          140
Met Thr Leu Ala Ser Leu Leu Ser Ser Leu Val Ile Ala Ser Val His
      145          150          155          160
Thr Phe Lys Thr Phe Gln Leu Ser Phe Cys His Ser Asn Val Ile Pro
      165          170          175
Gln Phe Phe Cys Asp Leu Pro Ala Leu Leu Arg Leu Ser Cys Ser Asp
      180          185          190
Thr Phe Asn Asn Asn Leu Leu Ile Leu Pro Thr Asp Ile Gly Val Ser
      195          200          205
Gly Ser Cys Phe Val Phe Ile Ala Ile Ser Tyr Ile Arg Ile Leu Ser
      210          215          220
Thr Val Leu Lys Ile Pro Ile Lys Arg Glu Arg Gly Lys Ala Phe Ser
      225          230          235          240
Thr Cys Val Pro His Ile Ile Val Val Ser Val Phe Val Ser Ser Ala
      245          250          255
Ala Tyr Val Tyr Leu Arg Pro Pro Val Ile Thr Phe Glu Val Val Gln
      260          265          270
Glu Met Ile Val Ser Val Phe Tyr Thr Met Val Pro Pro Phe Leu Asn
      275          280          285
Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Ile Lys Glu Ala Val Arg
      290          295          300
Lys Val Met Ser Gln Val Phe Pro Ile
305          310

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&lt;210&gt; 2233

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (19)...(25)



<223> Any amino acid

<400> 2233

Met	Thr	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly	His	Pro
1				5					10					15	
Asn	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Leu	Gly	Ile	Pro	Glu	Thr
			20					25					30		
Glu	Gly	Leu	Glu	Asn	Val	Leu	Leu	Phe	Leu	Phe	Ser	Thr	Leu	Tyr	Ala
		35					40					45			
Cys	Ala	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Thr	Ala	Val	Ile	Ser	Ser
	50					55					60				
Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ser	Ile
65					70					75					80
Phe	Asp	Met	Gly	Phe	Cys	Ser	Thr	Thr	Ala	Pro	Lys	Met	Leu	Ser	Tyr
				85					90					95	
Leu	Ser	Gly	Gln	Gly	Gly	Gly	Ile	Ser	Phe	Gln	Gly	Cys	Val	Val	Gln
			100					105					110		
His	Phe	Phe	Tyr	His	Cys	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu	Tyr	Thr
		115					120					125			
Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	Tyr
	130					135					140				
Thr	Ile	Ile	Met	Asn	His	Arg	Val	Cys	Cys	Val	Leu	Ala	Thr	Gly	Thr
145					150					155					160
Trp	Met	Ser	Gly	Cys	Val	His	Ala	Thr	Ile	Leu	Thr	Cys	Leu	Thr	Phe
				165					170					175	
Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Asn	Val	Gly	Tyr	Tyr	Phe	Cys	Asp
			180					185					190		
Met	Pro	Ala	Val	Leu	Pro	Leu	Ala	Cys	Glu	Asp	His	Ser	Leu	Ala	Gln
		195					200					205			
Arg	Val	Gly	Phe	Thr	Asn	Val	Gly	Leu	Leu	Ser	Leu	Ile	Cys	Phe	Phe
	210					215						220			
Leu	Ile	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Gly	Ile	Ser	Ile	Ser	Lys	Ile
225					230					235					240
Arg	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala	His
				245					250					255	
Leu	Thr	Ala	Ile	Ile	Cys	Ala	Tyr	Gly	Pro	Val	Ile	Val	Ile	Tyr	Leu
		260						265					270		
Gln	Pro	Asn	Pro	Ser	Pro	Leu	Leu	Gly	Ala	Val	Ile	Gln	Ile	Leu	Asn
		275					280					285			
Asn	Leu	Val	Thr	Pro	Thr	Ile	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
	290					295					300				
Lys	Asp	Val	Lys	Ala	Ala	Leu	Arg	His	Val	Phe	Leu	Lys	Arg	Ser	Leu
305					310					315					320
Ser	Leu	Glu	Ser	Lys											
				325											

<210> 2234

<211> 254

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (91)...(145)

<223> Any amino acid

<400> 2234

Met Ile Ala Gly Asn Tyr Ser Met Val Thr Glu Phe Ile Leu Ala Gly

1				5					10					15			
Leu	Thr	Ser	Thr	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu		
			20					25					30				
Gly	Ile	Tyr	Ala	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu		
		35					40					45					
Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser		
	50					55					60						
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	His	Ser	Thr	Val	Ile	Thr	Pro	Lys		
65					70					75					80		
Met	Leu	Val	Asn	Phe	Val	Thr	Val	Lys	Asn	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
			85						90					95			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
			100					105						110			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
		115					120					125					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
	130					135					140						
Xaa	Phe	Ser	Ala	Phe	Asn	Ile	Leu	Phe	Pro	Thr	Leu	Ser	Ile	Leu	Ser		
145					150				155						160		
Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu		
			165						170					175			
Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Ser	Ala	Val		
			180					185					190				
Ala	Val	Phe	Phe	Gly	Ser	Ala	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser		
		195					200					205					
Val	Ser	Ser	Met	Asp	Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile		
	210					215					220						
Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp		
225					230					235					240		
Val	Lys	Val	Ala	Leu	Thr	Lys	Phe	Tyr	Glu	Lys	Ser	Phe	Ser				
			245						250								

<210> 2235  
 <211> 265  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (77)...(80)  
 <223> Any amino acid

<221> VARIANT  
 <222> (81)...(82)  
 <223> Any amino acid

<400> 2235  
 Met Gly Glu Asp Asn Arg Thr Ser Val Thr Glu Phe Ile Phe Leu Gly  
 1 5 10 15  
 Leu Ser Gln Asp Pro Gln Thr Gln Val Leu Leu Phe Phe Leu Phe Leu  
 20 25 30  
 Phe Ile Tyr Leu Leu Thr Val Leu Gly Asn Leu Leu Ile Ile Val Leu  
 35 40 45  
 Ile His Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Arg  
 50 55 60  
 Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Thr Thr Xaa Xaa Xaa Xaa  
 65 70 75 80  
 Phe Xaa Xaa Cys Leu Gln Pro Leu His Tyr Ser Thr Ile Met Tyr Thr



Glu	Gln	Asp	Met	Val	Val	Ser	Thr	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met
225					230					235				240	
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala
			245						250					255	
Met	Arg	Lys	Leu	Leu	Lys	Arg	Lys	Leu	Val	His	Glu				
			260					265							

<210> 2237  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2237

Met	Ala	Asp	Arg	Asn	Leu	Thr	Val	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Glu	Asp	Pro	Val	Leu	Asn	Thr	Val	Leu	Ser	Val	Leu	Cys	Leu
			20					25					30		
Leu	Ile	Tyr	Val	Ile	Thr	Val	Ala	Gly	Asn	Leu	Trp	Ile	Ile	Val	Ile
		35					40					45			
Ile	Leu	Ala	Thr	Asp	Gln	Leu	His	Ser	Pro	Lys	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
His	Leu	Ala	Phe	Leu	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Phe	Leu	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Tyr	Leu	Val	Gly	Gln	Asn	Ser	Ile	Ser	Tyr	His	Gly
				85					90					95	
Cys	Leu	Leu	Gln	Tyr	Ser	Phe	Val	Asn	Met	Phe	Leu	Thr	Ala	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Tyr	Tyr	Arg	Cys	Leu	Met	Thr	Pro	Thr	Phe	Cys	Ile	Tyr	Leu
		130					135					140			
Val	Ser	Ala	Ser	Tyr	Leu	Leu	Gly	Cys	Ala	Asn	Ser	Leu	Thr	His	Leu
145					150					155					160
Arg	Ser	Leu	Leu	Asn	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His
				165					170					175	
Tyr	Phe	Cys	Asp	Ile	Pro	Leu	Leu	Phe	Gln	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Asp	Ser	Glu	Val	Leu	Phe	Ile	Val	Leu	Ser	Gly	Ala	Thr	Ser	Ile
		195					200					205			
Thr	Thr	Phe	Leu	Ile	Val	Ile	Ser	Ser	Tyr	Leu	Gly	Ile	Leu	Ile	Thr
		210				215					220				
Val	Leu	Lys	Ile	His	Ser	Ala	Arg	Gly	Ser	Tyr	Lys	Ala	Phe	Ile	His
225					230					235					240
Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Ala	Ser	His	Leu	Thr	Val	Val
			245						250					255	
Thr	Leu	Phe	Tyr	Gly	Thr	Val	Asn	Ile	Asn	Tyr	Thr	Trp	Glu	Pro	Gly
			260					265					270		
Ser	Ser	Phe	Pro	Gln	Asp	Thr	Glu	Lys	Ile	Leu	Ser	Val	Phe	Tyr	Thr
		275					280					285			
Leu	Leu	Leu	Pro	Val	Leu	Asn	Leu	Phe	Ile	Tyr	Ser	Val	Arg	Asn	Lys
		290				295					300				
Glu	Ala	Lys	Glu	Ala	Met	Arg	Arg	Met	Ile	Lys	Arg	Lys	Ile	Phe	Ala
305					310					315					320
Arg															

<210> 2238

<211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2238

Met	Asp	Thr	Trp	Asn	Tyr	Ile	Lys	Glu	Phe	Asp	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Leu	Thr	Asp	Ser	Lys	Glu	Ile	Gln	Leu	Val	Leu	Ala	Ile	Val	Phe	Leu
			20					25					30		
Met	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Thr	Gly	Met	Met	Leu	Ile
		35					40					45			
Ile	Cys	Leu	Asp	Ala	His	Leu	His	Thr	Pro	Met	His	Phe	Phe	Leu	Thr
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Ile	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75					80
Thr	Phe	Glu	Asn	Leu	Phe	Thr	Ser	Ile	Lys	Asn	Asn	Ser	Phe	Met	Gly
				85					90					95	
Cys	Ile	Thr	Gln	Leu	Tyr	Tyr	Phe	Val	Leu	Phe	Gly	Gly	Ala	Gln	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Asn	Pro
		115					120					125			
Leu	Tyr	Tyr	Leu	Ala	Val	Met	Ser	Arg	Arg	Gln	Trp	His	Ala	Phe	Leu
	130					135					140				
Ile	Gly	Ser	Tyr	Leu	Met	Gly	Ala	Ile	Asp	Ser	Ser	Ile	Asn	Met	Leu
145					150					155					160
Cys	Leu	Asn	Arg	Met	Asp	Phe	Cys	Val	Ser	His	Val	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Asp	Thr	Pro	Thr	Ile	Leu	Ala	Leu	Ser	Tyr	Ser	Asp	Thr	Tyr
			180					185					190		
Val	Ile	Glu	Ile	Ile	Ile	Ile	Ile	Val	Phe	Arg	Ser	Ser	Leu	Met	Val
		195					200					205			
Ser	Leu	Leu	Thr	Ile	Ser	Val	Ser	Tyr	Ala	Ser	Ile	Leu	Ser	Thr	Ile
	210					215					220				
Leu	Lys	Ile	Asn	Ser	Ile	Ser	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Leu	Ala	Val	Thr	Ile	Ser	Tyr	Ser	Thr	Ala	Ile	Phe
				245					250					255	
Thr	Tyr	Ser	Lys	Ser	Lys	Arg	Leu	Tyr	Ser	Leu	Gly	Lys	Asp	Gln	Val
			260					265					270		
Val	Ser	Ala	Leu	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Glu	Asn	Ala	Val	Ser	Arg	Val	Ile
	290					295					300				
Lys	Lys	Arg	Glu	Asp	Ser	Arg									
305					310										

<210> 2239  
 <211> 292  
 <212> PRT  
 <213> Mus musculus

<220>

<221> VARIANT

<222> (276)...(283)

<400> 2239

Met	Leu	Arg	Lys	Asn	Tyr	Thr	Ala	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	

Leu	Thr	Asp	Gln	Ala	Glu	Leu	Gln	Pro	Val	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Ile	Thr	Val	Ile	Gly	Asn	Val	Ser	Met	Ile	Phe	Leu
		35					40					45			
Ile	Arg	Ser	Asp	Ser	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr	Ala	Thr	Asn	Val	Thr	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Phe	Leu	Ser	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Ile	Gly
			85						90					95	
Cys	Phe	Ile	Gln	Phe	His	Phe	Phe	Ile	Ala	Leu	Val	Ile	Thr	Asp	Tyr
			100					105					110		
Tyr	Met	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Ser	Lys	Met	Ser	Arg	Ser	Val	Cys	Leu	Ser	Leu
		130				135					140				
Val	Ala	Ala	Pro	Tyr	Ile	Tyr	Gly	Phe	Ala	Asn	Gly	Leu	Ala	Gln	Thr
145					150					155					160
Ile	Leu	Met	Leu	Arg	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asn	His
			165						170					175	
Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Met	Val	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Tyr	Val	Lys	Glu	Thr	Ala	Met	Phe	Val	Val	Ala	Gly	Ser	Asn	Leu	Thr
		195					200					205			
Cys	Ser	Leu	Thr	Ile	Ile	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Thr	Ala
		210				215				220					
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ile	Ala	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Cys	Met	Tyr	Leu	Arg	Pro	Pro	Ser	Glu	Lys	Ser	Val	Glu	Gln	Gly	Lys
			260					265					270		
Ile	Val	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Asp	Leu	Ser	Asn	Ala
		275				280						285			
Leu	Val	Val	Ser												
		290													

<210> 2240

<211> 247

<212> PRT

<213> Mus musculus

<400> 2240

Met	Ser	Leu	Thr	Asn	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp	Arg
1				5					10					15	
Ser	Glu	Phe	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu	Phe	Ile	Tyr	Leu
			20					25					30		
Val	Thr	Val	Leu	Gly	Asn	Met	Cys	Ile	Met	Ala	Leu	Ile	Arg	Leu	Asp
		35					40					45			
Ser	His	Leu	His	Lys	Pro	Ile	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ala	Phe
	50					55					60				
Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln	Ile	Leu	Thr	Asn
65					70					75					80
Val	Thr	Ile	Ser	Phe	Ile	Gly	Cys	Phe	Gln	Cys	Tyr	Leu	Leu	Pro	Thr
			85					90					95		
Phe	Tyr	Met	Leu	Ala	Pro	Met	Ala	Tyr	Asp	Leu	Tyr	Val	Ala	Ile	Cys
			100				105						110		
Asn	Pro	Leu	His	Tyr	Ser	Leu	Lys	Met	Tyr	Arg	Gln	Asp	Cys	Ile	Cys

115	120	125
Leu Ala Met Cys Pro Tyr Ile Tyr Gly Phe Ser Asp Gly Leu Phe Gln		
130	135	140
Ala Ile Leu Thr Leu Ser Ile Met Ser Tyr Lys Ser Ser Val Ile Asn		
145	150	155
His Phe Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ser Tyr Ser Asp		
165	170	175
Ile Tyr Ile Lys Glu His Ala Met Leu Ile Ser Ala Gly Phe Asn Leu		
180	185	190
Ser Asn Ser Leu Lys Ile Ile Leu Val Ser Tyr Ala Phe Ile Met Ala		
195	200	205
Ala Ile Leu Arg Met Lys Ser Ala Gly Gly Arg His Lys Ser Phe Ser		
210	215	220
Ser Cys Asp Ser His Met Arg Ala Val Thr Leu Phe Tyr Gly Thr Leu		
225	230	235
Phe Cys Met Tyr Val Arg Pro		
245		

<210> 2241

<211> 321

<212> PRT

<213> Mus musculus

<400> 2241

Met Ala Gly Ser Asn Ala Thr Ala Val Thr Glu Phe Ile Leu Leu Gly	
1	5
Phe Val Val Gln Arg Glu Val Glu Ile Ile Leu Phe Leu Ile Ile Leu	
20	25
Val Ile Tyr Thr Leu Thr Leu Val Gly Asn Val Gly Met Ile Ser Leu	
35	40
Ile Ser Met Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser	
50	55
Asn Leu Ala Phe Val Asp Leu Cys Tyr Ser Ser Ser Val Ala Pro Lys	
65	70
Phe Leu Glu Thr Leu Leu Ser Asn Arg Arg Ser Ile Ser Phe Tyr Ala	
85	90
Cys Ala Thr Gln Leu Gly Phe Phe Leu Asn Phe Leu Ile Ser Glu Met	
100	105
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn	
115	120
Pro Leu Leu Tyr Met Val Val Met Ser Gln Lys Val Cys Leu Arg Leu	
130	135
Val Met Gly Pro Tyr Phe Tyr Ser Phe Ala Val Ala Leu Leu His Thr	
145	150
Val Val Thr Phe Lys Leu Ile Tyr Cys Gly Pro Asn Ile Ile Asn His	
165	170
Phe Tyr Cys Asp Asp Val Pro Leu Met Ala Leu Ala Cys Ser Asp Thr	
180	185
Ser Leu Lys Glu Ile Leu Ile Phe Ser Phe Ala Gly Phe Asn Met Ile	
195	200
Ser Ser Leu Thr Thr Val Leu Ile Ser Tyr Leu Tyr Ile Val Ala Ala	
210	215
Ile Leu Arg Ile Gln Ser Thr Glu Gly Arg Tyr Lys Ala Phe Ser Thr	
225	230
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ile	
245	250
Phe Met Tyr Leu Gln Pro Lys Ser Ser His Ser Leu Asp Thr Asp Lys	
260	265
	270

Met	Ala	Ser	Val	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Met
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser	Ala	Leu	Arg	Lys	Ala
	290					295					300				
Leu	Glu	Lys	Cys	Tyr	Leu	Leu	Pro	Leu	Met	His	Leu	Lys	Lys	Gly	Ile
305					310					315					320
Ser															

<210> 2242  
 <211> 171  
 <212> PRT  
 <213> Mus musculus

<400> 2242

Tyr	Ser	Phe	Ala	Val	Ala	Leu	Leu	His	Thr	Val	Val	Thr	Phe	Lys	Leu
1				5					10					15	
Ile	Tyr	Cys	Gly	Pro	Asn	Ile	Ile	Asn	His	Phe	Tyr	Cys	Asp	Asp	Val
			20					25					30		
Pro	Leu	Met	Ala	Leu	Ala	Cys	Ser	Asp	Thr	Ser	Leu	Lys	Glu	Ile	Leu
		35					40					45			
Ile	Phe	Ile	Phe	Ala	Gly	Phe	Asn	Met	Ile	Ser	Ser	Leu	Thr	Thr	Val
	50					55					60				
Leu	Ile	Ser	Tyr	Leu	Tyr	Ile	Val	Ala	Ala	Ile	Leu	Arg	Ile	Gln	Ser
65					70					75					80
Thr	Glu	Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr
				85					90				95		
Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Gln	Pro
			100					105					110		
Lys	Ser	Ser	His	Ser	Leu	Asp	Thr	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr
		115					120					125			
Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn
	130					135					140				
Gln	Glu	Val	Lys	Ser	Ala	Leu	Arg	Lys	Ala	Leu	Glu	Lys	Cys	Tyr	Leu
145					150					155					160
Leu	Pro	Leu	Met	His	Leu	Lys	Lys	Gly	Ile	Ser					
				165					170						

<210> 2243  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2243

Phe	Val	Val	Arg	Ser	Lys	Met	Ser	Arg	Val	Val	Cys	Ile	Arg	Leu	Ile
1				5					10					15	
Ser	Val	Pro	Tyr	Val	Tyr	Gly	Phe	Ser	Val	Ser	Leu	Ile	Cys	Thr	Leu
			20					25					30		
Trp	Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Asn	Ile	Lys	Ile	Asn	His	Phe
		35					40					45			
Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Ile	Ala	Cys	Gly	Gly	Val	His
	50					55					60				
Ile	Lys	Glu	His	Thr	Met	Ile	Val	Ile	Ala	Gly	Ile	Asn	Phe	Thr	Tyr
65					70					75					80
Ser	Leu	Ser	Val	Val	Leu	Ile	Ser	Tyr	Val	Leu	Ile	Val	Val	Ala	Val
				85					90					95	
Leu	Arg	Met	His	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys



			100					105					110				
Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Met	Phe	Tyr	Gly	Thr	Leu	Ile	Phe		
		115						120				125					
Met	Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Gln	Gly	Lys	Met		
		130						135				140					
Val	Ala	Val	Phe	Tyr	Thr	Ser	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile		
145						150				155					160		
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Val	Tyr	Lys	Ile	Val		
				165					170					175			
Ala	Lys	Ala	Asn	Leu	Arg	Lys											
			180														

<210> 2244  
 <211> 154  
 <212> PRT  
 <213> Mus musculus

<400> 2244																	
Cys	Thr	Leu	Trp	Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Asn	Val	Lys	Ile		
1				5					10					15			
Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Ile	Ala	Cys	Gly		
			20					25					30				
Gly	Val	His	Ile	Lys	Glu	Tyr	Thr	Met	Ile	Val	Ile	Ala	Gly	Ile	Asn		
		35					40					45					
Phe	Thr	Tyr	Ser	Leu	Ser	Val	Val	Leu	Ile	Ser	Tyr	Val	Leu	Ile	Val		
		50				55				60							
Val	Ala	Val	Leu	Arg	Met	His	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe		
65					70				75						80		
Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Met	Phe	Tyr	Gly	Thr		
				85					90					95			
Leu	Ile	Phe	Met	Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Gln		
			100					105					110				
Gly	Lys	Met	Val	Ala	Val	Phe	Tyr	Thr	Ser	Val	Ile	Pro	Met	Leu	Asn		
		115					120					125					
Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Val	Cys		
		130				135					140						
Lys	Ile	Val	Ala	Lys	Ala	Asn	Leu	Arg	Lys								
145						150											

<210> 2245  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (92)...(156)  
 <223> Any amino acid

<400> 2245																	
Met	Pro	Leu	Thr	Asn	Ser	Thr	Lys	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly		
1				5					10					15			
Leu	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu		
			20					25					30				
Phe	Val	Tyr	Ile	Val	Thr	Val	Leu	Gly	Asn	Met	Gly	Met	Val	Ala	Leu		
		35					40					45					
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser		

50	55	60
Asn Leu Ala Phe Val Asp	Leu Cys Tyr Thr Ser	Thr Ala Thr Pro Gln
65	70	75
Met Leu Thr Asn Phe Leu Ser Glu Lys Lys Thr Xaa Xaa Xaa Xaa Xaa		80
	85	90
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		95
	100	105
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa		110
	115	120
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		125
	130	135
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Thr Ile		140
145	150	155
Ile Leu Val Ser Tyr Ala Phe Ile Ile Ala Ala Ile Leu Arg Ile Lys		160
	165	170
Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys Gly Ser His Met		175
	180	185
Met Ala Val Thr Leu Phe Tyr Gly Thr Leu Phe Cys Met Tyr Val Arg		190
	195	200
Pro Pro Thr Asp Lys Thr Val Glu Glu Ser Lys Ile Ile Ala Val Phe		205
210	215	220
Tyr Thr Phe Val Ser Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu Arg		225
	230	235
Asn Lys Asp Val Lys Gln Ala Leu Lys Thr Ile Leu Arg Gln Asn Val		240
	245	250
Ile Arg Thr Ala Leu Met Arg Pro Pro Ser Asn Lys Leu Gln Gln		255
	260	265
		270

<210> 2246

<211> 313

<212> PRT

<213> Mus musculus

<400> 2246

Met Glu Arg Lys Asn Gln Thr Thr Val Leu Glu Phe Leu Phe Leu Gly	
1	5
Leu Thr Asp Tyr Leu His Gln Lys Val Val Leu Phe Ile Ile Phe Phe	10
	15
	20
Leu Val Tyr Leu Val Thr Leu Ala Gly Asn Val Gly Met Ile Asn Leu	25
	30
	35
Ile Trp Val Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser	40
	45
	50
Gln Leu Ala Phe Val Asp Val Cys Ser Ser Ser Cys Val Ala Pro Lys	55
65	60
Met Leu Ser Asp Ile Phe Ala Glu Lys Lys Ala Ile Ser Phe Met Gly	65
	70
	75
	80
	85
Cys Ala Ala Gln Met Trp Phe Phe Gly Leu Phe Val Thr Thr Asp Cys	90
	95
	100
Phe Leu Leu Ala Ala Met Ala Tyr Asp Tyr Thr Ala Val Cys Lys Pro	105
	110
	115
Leu Leu Tyr Ser Val Ile Met Ser Lys Arg Val Cys Val Gln Phe Val	120
	125
	130
Ile Gly Pro Tyr Leu Leu Ala Ala Ile Asn Ile Thr Thr His Thr Thr	135
145	140
	145
Leu Thr Phe Cys Leu Pro Phe Cys Gly Ser Asn Thr Ile Asn His Phe	150
	155
	160
	165
Phe Cys Asp Val Ser Pro Leu Leu Ser Leu Ala Cys Ala Asp Thr Trp	170
	175
	180
	185
	190

Ile	Asn	Lys	Val	Val	Leu	Phe	Val	Leu	Ala	Gly	Val	Ile	Gly	Val	Pro
	195						200					205			
Ser	Gly	Leu	Ile	Ile	Ile	Val	Ser	Tyr	Val	Cys	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Lys	Thr	Ala	Asp	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Ala	Ala	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe	Phe
			245						250					255	
Ile	Tyr	Val	Arg	Pro	Asn	Ala	Ser	Ser	Ser	Leu	Asp	Ile	Asn	Lys	Val
		260					265						270		
Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275					280						285			
Tyr	Ser	Ser	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Val	Lys	Arg	Ile	Leu
	290					295					300				
Arg	Ser	Asn	His	Phe	Leu	Thr	Gly	Ala							
305					310										

<210> 2247  
 <211> 294  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (95)...(101)  
 <223> Any amino acid

<400> 2247

Met	Asp	Glu	Glu	Asn	Ile	Thr	Glu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Thr	Glu	Asp	Ala	Val	Leu	Gln	Gln	Val	Leu	Phe	Phe	Ile	Phe	Leu
			20					25					30		
Thr	Ile	Tyr	Ile	Ile	Ser	Leu	Leu	Gly	Asn	Ile	Thr	Leu	Ile	Ser	Leu
		35				40						45			
Ile	Cys	Ala	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Gly
	50					55				60					
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Trp	Tyr	Ser	Ser	Val	Tyr	Ala	Pro	Lys
65					70				75						80
Ile	Leu	Ile	Thr	Cys	Ile	Thr	Glu	Asp	Lys	Ser	Ile	Ser	Phe	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn	Pro
			100					105					110		
Leu	Leu	Tyr	Phe	Gln	Ala	Met	Ser	Pro	Arg	Leu	Arg	Ala	Ser	Leu	Val
		115				120						125			
Ala	Ala	Ser	Tyr	Leu	Gly	Gly	Phe	Ala	Asn	Ser	Thr	Ile	Ile	Thr	Ser
	130				135						140				
Glu	Thr	Phe	Thr	Leu	Ser	Phe	Cys	Arg	Asp	Asn	Ile	Ile	Asp	Asp	Phe
145					150				155						160
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Val	Lys	Leu	Ala	Cys	Asp	Val	Lys	Glu
			165						170					175	
Ser	Tyr	Gln	Ala	Val	Leu	Tyr	Phe	Ile	Leu	Ala	Ser	Asn	Val	Ile	Thr
		180						185					190		
Pro	Thr	Val	Leu	Ile	Leu	Ala	Ser	Tyr	Leu	Phe	Ile	Ile	Val	Ala	Ile
		195				200						205			
Leu	Lys	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Leu	Lys	Ala	Phe	Ser	Thr	Cys
	210					215					220				
Gly	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	Ser	Ile	Leu	Phe
225					230					235					240

Ile	Tyr	Ser	Arg	Pro	Ser	Thr	Ser	Tyr	Ala	Leu	Glu	Arg	Asp	Lys	Val
				245					250					255	
Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
			260					265					270		
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	Arg	Lys	Met	Leu
		275					280					285			
Asp	Ile	Val	Lys	Leu	Ser										
	290														

<210> 2248  
 <211> 153  
 <212> PRT  
 <213> Mus musculus

Thr	Ala	Asn	Thr	Phe	Gln	Leu	Thr	Phe	Cys	Gly	Glu	Asn	Ile	Ile	Asp
1				5					10					15	
His	Phe	Phe	Cys	Asp	Ala	Pro	Pro	Leu	Val	Lys	Met	Leu	Cys	Thr	Asp
			20					25					30		
Thr	Arg	Val	Tyr	Glu	Lys	Val	Leu	Leu	Gly	Val	Val	Gly	Phe	Thr	Met
		35					40					45			
Leu	Ser	Ser	Ile	Leu	Ala	Ile	Leu	Ile	Ser	Tyr	Phe	Asn	Ile	Leu	Leu
	50					55					60				
Ala	Ile	Leu	Arg	Ile	Cys	Ser	Ala	Ser	Gly	Arg	His	Asn	Ala	Phe	Ser
65					70				75					80	
Thr	Cys	Ala	Ser	His	Leu	Val	Ser	Val	Met	Leu	Phe	Tyr	Gly	Pro	Phe
				85					90					95	
Leu	Phe	Met	Tyr	Ser	Arg	Pro	Ser	Ser	Thr	Tyr	Ser	Leu	Glu	Lys	Asp
		100						105					110		
Lys	Val	Ala	Ala	Leu	Phe	Tyr	Thr	Val	Asp	Asn	Pro	Leu	Phe	Asn	Pro
		115					120					125			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Phe	Arg	Lys
	130					135					140				
Ala	Ser	Gln	Thr	Ile	Gln	Pro	His	Thr							
145					150										

<210> 2249  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

Met	Lys	Asp	Lys	Asn	Glu	Thr	Thr	Val	Ser	Glu	Ser	Leu	Phe	Leu	Ser
1				5					10					15	
Leu	Thr	Asn	Arg	Leu	Tyr	Gln	Lys	Ser	Ile	Leu	Phe	Ile	Leu	Phe	Leu
			20					25					30		
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Gly	Gly	Asn	Leu	Ser	Met	Val	Thr
		35					40					45			
Leu	Ile	Trp	Val	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Val	Asp	Met	Cys	Ser	Ser	Ser	Ser	Ile	Ala	Pro
65					70				75					80	
Arg	Met	Val	Tyr	Asp	Ile	Phe	Thr	Glu	Glu	Lys	Ile	Lys	His	Phe	Phe
				85					90					95	
Leu	Gly	Cys	Thr	Val	Gln	Leu	Trp	Phe	Ala	Gly	Leu	Phe	Val	Gly	Thr
			100					105					110		
Gly	Cys	Phe	Leu	Leu	Ala	Asn	Met	Ala	Tyr	Glu	Trp	Tyr	Thr	Ala	Ile



Leu	Val	Thr	Ser	Leu	Phe	Gly	Ile	Leu	Pro	Leu	Ser	Gly	Ile	Ile	Tyr
210						215					220				
Ser	Tyr	Thr	Lys	Ile	Ile	Ser	Ser	Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala
225					230					235					240
Gly	Lys	Tyr	Lys	Val	Phe	Ser	Thr	Cys	Val	Ser	His	Leu	Val	Val	Val
				245					250					255	
Ile	Leu	Phe	Tyr	Gly	Thr	Gly	Phe	Gly	Val	Tyr	Leu	Ser	Ser	Ala	Gly
			260					265					270		
Thr	His	Ser	Ser	Arg	Met	Ser	Ala	Ile	Ala	Ser	Val	Met	Tyr	Thr	Val
		275					280					285			
Val	Thr	Pro	Thr	Met	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
	290					295					300				
Met	Val	Asn	Ala	Phe	Lys	Lys	Leu	Ile	Ser	Arg	Ile	Thr	Thr	Ser	Leu
305					310					315					320

<210> 2251

<211> 312

<212> PRT

<213> Mus musculus

<400> 2251

Met	Lys	Arg	Gly	Asn	Val	Ser	Glu	Ser	Thr	Glu	Phe	His	Leu	Met	Gly
1				5					10					15	
Leu	Ser	Asp	Asn	Gln	Glu	Leu	Gln	Pro	Val	Leu	Phe	Gly	Val	Phe	Leu
			20					25					30		
Ser	Ile	Tyr	Leu	Ile	Thr	Met	Phe	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Thr	Val	Phe	Asp	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50				55						60				
Asn	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Phe	Thr	Thr	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Ile	Gln	Ala	Gln	Val	Asn	Ser	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Ile	Cys	Phe	Val	Leu	Ala	Phe	Ala	Gly	Leu	Glu	Asn
			100					105					110		
Gly	Ile	Leu	Val	Met	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Lys	Ile	Cys	Gly	Val	Met
	130					135					140				
Val	Leu	Leu	Ser	Phe	Leu	Ile	Ser	Ile	Leu	Asp	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Met	Ala	Leu	His	Leu	Ser	Phe	Cys	Thr	Lys	Val	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Ala	His	Ile	Leu	Lys	Leu	Ala	Cys	Ser	Asn	Ile
			180					185					190		
Leu	Ile	Asn	Asn	Ile	Leu	Val	Tyr	Leu	Val	Thr	Ser	Leu	Leu	Gly	Val
		195					200					205			
Leu	Pro	Leu	Ser	Gly	Ile	Ile	Tyr	Ser	Tyr	Thr	Arg	Ile	Ile	Ser	Ser
	210					215					220				
Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala	Gly	Lys	Tyr	Lys	Val	Phe	Ser	Ile
225					230					235					240
Cys	Ala	Ser	His	Leu	Val	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Gly	Phe
				245					250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Gly	Thr	His	Ser	Ser	Arg	Lys	Ser	Ala
		260						265					270		
Ile	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe
		275						280				285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Val	Ser	Ala	Phe	Lys	Lys	Leu

290 295 300  
 Ile Ser Arg Ile Thr Thr Ser Leu  
 305 310

<210> 2252  
 <211> 117  
 <212> PRT  
 <213> Mus musculus

<400> 2252  
 Ile Glu Phe Tyr Phe Val Phe Ser Val Leu Leu Leu Glu Arg Cys Asn  
 1 5 10 15  
 Ser Glu Thr Lys Gln Leu Phe Leu Glu Phe His Leu Leu Gly Leu Thr  
 20 25 30  
 Asn Asp Pro Glu Leu Glu Pro Leu Ile Tyr Gly Leu Phe Arg Leu Tyr  
 35 40 45  
 Leu Phe Thr Ile Leu Gly Asn Ile Val Ile Leu Leu Ala Ile Phe Ser  
 50 55 60  
 Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Arg Leu Ser  
 65 70 75 80  
 Ile Asn Asp Val Cys Leu Ser Ile Ser Thr Ile Pro Lys Met Leu Val  
 85 90 95  
 Asn Ser Gln Ala Gln Asp Asn Lys Ile Ser Tyr Ile Gln Cys Ile Ser  
 100 105 110  
 Gln Ile Tyr Phe Val  
 115

<210> 2253  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2253  
 Val Ile Ser Phe Leu Val Ala Ala Arg Ser Lys Ser Gly Ser Ala Cys  
 1 5 10 15  
 Phe Lys Val His Ser Leu Met Val Leu Gln Leu Ser Phe Gly Thr Asn  
 20 25 30  
 Leu Glu Ile His Asn Phe Phe Cys Glu Leu Ala Gln Val Leu Asn Leu  
 35 40 45  
 Ala Cys Phe Asp Thr Phe Ile Asn Asn Leu Leu Ile Leu Val Ala Val  
 50 55 60  
 Phe Ile Phe Met Ser Gly Gln Val Cys Gly Val Ile Phe Ser Tyr Thr  
 65 70 75 80  
 Tyr Ile Leu Leu Ser Val Leu Arg Met Thr Ser Gln Thr Gly Lys Lys  
 85 90 95  
 Lys Ala Phe Ser Thr Cys Thr Ser His Leu Ser Val Ile Phe Leu Phe  
 100 105 110  
 Tyr Gly Ser Cys Leu Gly Val Tyr Phe Ser Ser Ser Val Ala Glu Phe  
 115 120 125  
 Thr Arg His Ser Ala Val Ala Ser Val Met Tyr Thr Val Asp Pro Gln  
 130 135 140  
 Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg His Glu Glu Ser  
 145 150 155 160  
 Leu Ser Glu Ile His Trp Leu Asp Ile Leu Gly Ser Pro Leu Cys Ser  
 165 170 175  
 Leu Ile

<210> 2254  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2254  
 Met Glu Leu Cys Asn Val Thr Ser Thr Leu Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Phe Ala Leu Phe Leu  
 20 25 30  
 Leu Ile Tyr Leu Leu Thr Val Leu Gly Asn Val Leu Ile Leu Ala  
 35 40 45  
 Ile Ser Ser Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Tyr  
 50 55 60  
 Asn Leu Ser Leu Ser Asp Met Gly Phe Ser Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Ile Asn Thr Gln Thr His Asn Lys Ser Ile Thr Tyr Ala Ala  
 85 90 95  
 Cys Leu Thr Gln Val Pro Phe Phe Phe Leu Phe Gly Cys Met Asp Ser  
 100 105 110  
 Leu Leu Leu Thr Val Lys Ala Cys Asp Trp Val Ala Ile Cys Tyr Ser  
 115 120 125  
 Leu Tyr Tyr Gln Ile Ile Leu Asn Pro Cys Leu Cys Lys Cys Leu Val  
 130 135 140  
 Ile Val Ser Phe Phe Ile Ser Pro Met Asp Ser Gln Val His Phe Phe  
 145 150 155 160  
 Met Val Ser Gln Leu Lys Phe Cys Thr Asn Leu Glu Ile Pro His Phe  
 165 170 175  
 Phe Ser Asp Gly Thr Glu Ile Leu Lys Leu Ala Cys Thr Asp Ile Thr  
 180 185 190  
 Ile Ile Asn Ile Ala Ile Phe Leu Val Asn Ile Ile Ala Gly Phe Leu  
 195 200 205  
 Pro Ala Leu Gly Ile Phe Tyr Ser Tyr Tyr Lys Ile Ile Ser Ser Ile  
 210 215 220  
 Val Arg Val Leu Ser Ser Leu Gln Lys Tyr Lys Asp Phe Ser Thr Cys  
 225 230 235 240  
 Gly Phe His Leu Ser Val Val Cys Leu Phe Tyr Gln Thr Gly Ile Gly  
 245 250 255  
 Val Tyr Leu Ser Thr Tyr Ile Ser Ser Ser Ser Lys Glu Cys Val Val  
 260 265 270  
 Ala Leu Val Ile Tyr Thr Met Val Val Pro Met Met Asn Pro Phe Ile  
 275 280 285  
 Tyr Ile Leu Arg Asn Arg Asp Ile Lys Asn Asn Leu Gln Lys Ile Phe  
 290 295 300  
 Thr Gln Ile Lys  
 305

<210> 2255  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2255  
 Met Glu Ser Tyr Asn Leu Thr Arg Thr Leu Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Phe Val Leu Phe Leu





Ile	Ile	Leu	Ser	Tyr	Ile	Cys	Ile	Leu	Arg	Thr	Ile	Leu	Lys	Phe	Pro
			100					105					110		
Ser	Ala	Lys	Gln	Arg	Glu	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met
		115					120					125			
Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr	Val	Lys
	130					135					140				
Thr	Ser	Ala	Lys	Ala	Gly	Val	Ala	Leu	Thr	Lys	Gly	Val	Ala	Met	Leu
145					150					155					160
Asn	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg
			165						170					175	
Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Val	Arg	Arg	Lys	Leu
			180					185					190		
Ala	Ser	Lys													
		195													

<210> 2257

<211> 312

<212> PRT

<213> Mus musculus

<400> 2257

Met	Lys	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Asp	Asp	Pro	Glu	Val	Gln	Val	Val	Ile	Phe	Ile	Leu	Leu	Phe	Ile	Ala
			20					25					30		
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu
	35					40					45				
Leu	Asp	Ser	Gln	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe
50					55					60					
Ser	Phe	Leu	Glu	Ile	Ile	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65				70					75						80
Glu	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
			85					90					95		
Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Ser	Met	Gly	Val	Ser	Glu	Phe	Phe	Leu
		100						105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130				135						140				
Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Thr	Ile	Phe	Pro	Pro	Leu	Met	Leu
145				150						155					160
Val	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Ser
			165					170					175		
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Arg	Ser
		180					185					190			
Leu	Glu	Met	Ile	Gly	Phe	Tyr	Phe	Ala	Phe	Ile	Thr	Leu	Leu	Phe	Thr
	195					200					205				
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Ser	Ile	Ile	Ser	Thr	Ile	Leu
	210				215						220				
Arg	Phe	Pro	Ser	Ala	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ser	His	Met	Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245					250						255	
Tyr	Val	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Ala	Ser	Leu	Thr	Lys	Gly	Val
		260					265					270			
Ala	Val	Leu	Asn	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275					280					285				
Ser	Leu	Arg	Asn	Glu	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Ile	Asn

290 295 300  
 Lys Val Val Leu Tyr Arg Ser Lys  
 305 310

<210> 2258  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2258  
 Met Lys Asn Gln Ser Met Glu Leu Asp Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asp Asp Pro Gln Leu Gln Ile Val Val Phe Leu Phe Leu Phe Leu Asn  
 20 25 30  
 Tyr Met Met Ser Leu Val Gly Asn Leu Ile Ile Val Leu Leu Thr Leu  
 35 40 45  
 Leu Asp Pro Arg Leu Lys Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe  
 50 55 60  
 Ser Tyr Leu Glu Ile Met Phe Thr Thr Val Cys Ile Pro Lys Phe Leu  
 65 70 75 80  
 Thr Ala Ile Val Thr Gly Asp Lys Thr Val Ser Tyr Asn Asn Cys Ala  
 85 90 95  
 Thr Gln Leu Phe Thr Tyr Leu Leu Leu Gly Val Thr Glu Phe Tyr Leu  
 100 105 110  
 Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu  
 115 120 125  
 His Tyr Pro Ile Ile Met Asn Ser Lys Val Cys His Gln Leu Val Leu  
 130 135 140  
 Ser Ser Trp Val Thr Gly Phe Leu Ile Ile Phe Pro Pro Leu Ala Met  
 145 150 155 160  
 Gly Leu Lys Leu Asp Phe Cys Asp Ser Arg Ile Ile Asp His Phe Met  
 165 170 175  
 Cys Glu Thr Ser Pro Ile Leu Gln Ile Ser Cys Thr Asp Thr His Phe  
 180 185 190  
 Ile Glu Met Met Ser Phe Val Leu Ala Val Val Thr Leu Val Val Thr  
 195 200 205  
 Leu Val Leu Val Ser Leu Ser Tyr Ser Phe Ile Ile Lys Thr Ile Met  
 210 215 220  
 Ser Phe Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Thr  
 225 230 235 240  
 Ser His Met Ile Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Met  
 245 250 255  
 Tyr Ile Lys Pro Ser Ala Arg Glu Arg Val Ser Val Ser Lys Gly Val  
 260 265 270  
 Ala Leu Leu Tyr Thr Ser Ile Ala Pro Leu Leu Asn Pro Phe Ile Tyr  
 275 280 285  
 Thr Leu Arg Asn Gln Gln Val Lys Glu Val Phe Trp Asp Ile Leu Arg  
 290 295 300  
 Lys Thr Leu Gly Phe Leu Lys Asn Lys Val  
 305 310

<210> 2259  
 <211> 145  
 <212> PRT  
 <213> Mus musculus

<400> 2259

Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Leu	Cys	Asp	Val	Ser	Pro
1				5					10					15	
Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Leu	Leu	Glu	Val	Met	Ala
		20						25					30		
Phe	Ile	Leu	Ala	Leu	Met	Thr	Leu	Ile	Val	Thr	Leu	Ile	Ile	Val	Ile
		35					40					45			
Leu	Ser	Tyr	Ala	His	Ile	Val	Lys	Thr	Ile	Ile	Lys	Phe	Pro	Ser	Ala
	50					55					60				
Gln	Gln	Lys	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val
65					70					75					80
Val	Ser	Leu	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr	Ile	Lys	Pro	Ser
			85						90					95	
Ala	Asn	Glu	Arg	Val	Thr	Leu	Ser	Lys	Gly	Ile	Ala	Val	Leu	Asn	Thr
			100					105					110		
Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
		115					120					125			
Gln	Val	Lys	Gln	Ala	Cys	Gly	Ala	Ile	Leu	Arg	Lys	Ile	Phe	Ser	Ala
	130					135					140				
Ser															
145															

<210> 2260

<211> 313

<212> PRT

<213> Mus musculus

<400> 2260

Met	Ser	Val	Ala	Asn	Glu	Ser	Ile	Ser	Arg	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Val	Phe	Leu
		20						25					30		
Val	Ser	Tyr	Ile	Leu	Thr	Ile	Phe	Gly	Asn	Met	Met	Ile	Ile	Leu	Val
		35					40					45			
Ser	Arg	Leu	Asp	Ser	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Met	Leu	Ile	Asn	Ile	Cys	Ser	Thr	Arg	Lys	Val	Ile	Ser	Tyr	Gly	Gly
			85					90						95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Gly	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Arg	Cys	Leu	Gln	Leu
	130					135					140				
Ala	Ala	Ala	Cys	Trp	Ile	Ser	Gly	Phe	Ser	Asn	Ser	Val	Leu	Gln	Ser
145					150					155					160
Thr	Trp	Thr	Leu	Gln	Met	Pro	Leu	Cys	Gly	His	Lys	Glu	Val	Asp	His
			165						170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Asp	Thr
			180					185					190		
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Phe	Ile	Ser	Val	Leu	Phe	Leu	Leu
		195					200					205			
Ile	Pro	Val	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Gln	Ala
	210					215					220				
Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala	Ile



<210> 2262  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<400> 2262  
 Met Ser Asn His Thr Arg Val Thr His Phe Ile Leu Arg Gly Phe Ser  
 1 5 10 15  
 Asp Val Pro Gln Leu Arg Leu Val Leu Ile Pro Phe Phe Leu Phe Phe  
 20 25 30  
 Tyr Thr Phe Gly Ile Leu Gly Asn Phe Ser Ile Ile Thr Ala Val Thr  
 35 40 45  
 Arg Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Lys Asn Leu  
 50 55 60  
 Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ala Thr Ile Pro Lys Ala Val  
 65 70 75 80  
 Val Ile Ser Leu Thr Gly Ser Gly Val Ile Ser Tyr Gln Glu Cys Ala  
 85 90 95  
 Ala Gln Leu Tyr Ile Ile Phe Thr Phe Ala Cys Thr Glu Cys Phe Leu  
 100 105 110  
 Leu Thr Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Leu Arg Pro Leu  
 115 120 125  
 Ile Tyr Gly Thr Ile Met Ser Gln Lys Tyr Cys Ser Ala Leu Val Val  
 130 135 140  
 Thr Ala Trp Val Gly Gly Ala Ile Tyr Ser Ala Phe His Thr Phe Asn  
 145 150 155 160  
 Thr Phe Ser Leu Pro Tyr Cys Gly Pro Asn Val Ile Asp His Phe Phe  
 165 170 175  
 Cys Asp Met Pro Pro Val Met Arg Leu Ser Cys Thr Asp Tyr His Leu  
 180 185 190  
 Thr Glu Glu Val Gly Phe Ala Val Ser Ser Cys Ile Val Met Ser Ser  
 195 200 205  
 Phe Val Leu Thr Val Val Ser Tyr Ile Gly Ile Val Ala Thr Val Leu  
 210 215 220  
 Arg Ile Pro Ser Val Glu Gly  
 225 230

<210> 2263  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 2263  
 Met Glu Ser Gly Asn Arg Ser Cys Gly Thr Asp Phe Thr Leu Val Gly  
 1 5 10 15  
 Leu Phe Gln Asp Gly His Met Asp Thr Phe Leu Phe Thr Val Ile Ser  
 20 25 30  
 Ile Leu Phe Ala Val Ala Leu Ile Gly Asn Ile Thr Leu Val Ile Leu  
 35 40 45  
 Ile Arg Leu Asp Gln Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser  
 50 55 60  
 Gln Leu Ser Ile Met Asp Met Met Tyr Ile Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Ala Ala Asn Phe Leu Ser Asp Thr Lys Ala Ile Ser Phe Leu Gly  
 85 90 95  
 Cys Val Ile Gln Thr Phe Val Phe Leu Thr Leu Gly Gly Ser Glu Ala  
 100 105 110  
 Leu Leu Leu Gly Phe Met Ser Tyr Asp Arg Tyr Ile Ala Ile Cys Arg



				165					170					175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				195					200					205		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				210					215					220		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225									230					235		240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				245					250					255		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa	Xaa	Thr	Pro	
				260					265					270		
Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Met	Lys	Asp	
				275					280					285		
Ala	Leu	Lys	Lys	Leu	Met	Arg	Phe	Tyr	His	Arg	Phe	Ala	Glu	Val	Arg	
				290					295					300		
Arg	Asn															
305																

<210> 2265  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2265

Ser	Ile	Tyr	Glu	Asn	Gln	Ser	Ser	Thr	Val	Thr	Phe	Ile	Leu	Val	Gly	
1				5					10					15		
Phe	Ser	Glu	Tyr	Pro	Asp	Ile	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu	
			20					25					30			
Thr	Ile	Tyr	Thr	Val	Thr	Ala	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ala	Ile	
			35				40					45				
Ile	Arg	Leu	Ser	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	
			50			55					60					
His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Val	Thr	Pro	Lys	
65					70					75					80	
Leu	Leu	Glu	Asn	Leu	Ile	Val	Glu	Asp	Arg	Lys	Ile	Ser	Phe	Thr	Gly	
			85						90					95		
Cys	Val	Met	Gln	Phe	Phe	Phe	Ala	Cys	Ile	Phe	Val	Val	Thr	Glu	Thr	
			100					105					110			
Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val	Cys	Asn	
			115				120					125				
Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Lys	Leu	Cys	Trp	Ser	Leu	
			130			135						140				
Val	Ala	Gly	Ser	Tyr	Ser	Trp	Gly	Ile	Ile	Cys	Ser	Phe	Val	Phe	Ile	
145					150					155					160	
Arg	Phe	Met	Leu	Thr	Leu	Val	Phe	Cys	Gly	Thr	Lys	Phe	Ile	Asn	Asn	
			165						170					175		
Phe	Val	Cys	Glu	His	Asp	Ala	Ile	Val	Ala	Val	Ser	Cys	Ser	Asp	Pro	
			180					185						190		
Tyr	Ile	Ser	Gln	Lys	Val	Ile	Phe	Ile	Phe	Ala	Thr	Phe	Asn	Glu	Leu	
			195				200					205				
Ser	Ser	Leu	Met	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile	Val	Ile	Thr	
			210			215						220				
Val	Met	Lys	Met	Pro	Thr	Thr	Gly	Gly	Arg	Tyr	Lys	Val	Phe	Ser	Thr	
225					230					235					240	
Cys	Ala	Ser	His	Leu	Thr	Thr	Ile	Thr	Ile	Phe	His	Ser	Ile	Ile	Ile	
				245					250					255		



Cys	Leu	Tyr	Cys	Val	Pro	Thr	Thr	Lys	Ser	Ser	Trp	Leu	Leu	Val	Lys
			260					265					270		
Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Val	Lys	Lys	Leu
	290					295					300				
Met	Cys	Ser	Ser	Leu	Ser	Ser									
305					310										

<210> 2266  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (87)...(92)  
 <223> Any amino acid

<400> 2266

Met	Glu	Cys	Gln	Arg	Asn	Ile	Ser	Glu	Phe	Leu	Leu	Met	Gly	Leu	Ser
1				5					10					15	
Ser	Lys	Gln	Asn	Thr	Glu	Val	Phe	Cys	Phe	Met	Phe	Phe	Leu	Phe	Cys
			20					25					30		
Tyr	Phe	Thr	Ile	Leu	Ser	Trp	Asn	Leu	Leu	Ile	Leu	Phe	Ser	Ile	Arg
		35					40					45			
Gly	Ser	Ser	Leu	Phe	Asn	Gln	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	His	Leu
	50					55					60				
Ala	Ser	Met	Asp	Ile	Cys	Tyr	Thr	Ser	Cys	Val	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Gly	Gly	Ser	Ala	Cys	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Leu	His	Tyr
				85					90					95	
Met	Val	Ile	Met	Ser	Arg	Asn	Arg	Cys	His	Val	Phe	Ile	Trp	Ala	Ser
			100					105					110		
Trp	Val	Gly	Gly	Val	Ala	His	Ser	Phe	Pro	Gln	Val	Met	Met	Leu	Val
	115						120					125			
Cys	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe	Cys	Asp
	130					135					140				
Val	Phe	Pro	Leu	Leu	Lys	Ile	Ala	Cys	Thr	Asp	Thr	Tyr	Ile	Ile	Gly
145					150					155					160
Val	Leu	Met	Val	Ala	Asn	Ser	Gly	Met	Val	Ala	Ser	Val	Ile	Phe	Val
				165					170					175	
Leu	Leu	Phe	Gly	Ser	Tyr	Val	Val	Ile	Leu	Phe	Thr	Leu	Arg	Asn	Tyr
			180					185					190		
Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile
	195						200					205			
Ser	Val	Ile	Leu	Phe	Phe	Gly	Ser	Thr	Ile	Phe	Ala	Tyr	Leu	Arg	
	210				215					220					
Pro	Pro	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Ile	Phe	Ala	Leu	Phe	Tyr	Thr
225					230					235					240
Ile	Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
				245					250					255	
Glu	Met	Lys	Thr	Ala	Ile	Lys	Lys	Val	Trp	Cys	Gln	Met	Ser	Phe	
			260					265					270		

<210> 2267  
 <211> 308

<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (58)...(138)  
<223> Any amino acid

<400> 2267

Met	Glu	Cys	Lys	Arg	Asn	Val	Ser	Glu	Phe	Leu	Leu	Met	Gly	Leu	Ser
1				5					10					15	
Ser	Lys	Gln	Asn	Thr	Glu	Val	Phe	Cys	Phe	Ile	Phe	Phe	Leu	Phe	Cys
			20					25					30		
Tyr	Phe	Thr	Ile	Leu	Ser	Trp	Asn	Leu	Leu	Ile	Leu	Phe	Ser	Ile	Arg
		35					40					45			
Cys	Ser	Ser	Leu	Phe	Asn	Gln	Pro	Met	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			85					90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Ile	Trp	Ala	Ser	Trp
	130					135					140				
Val	Gly	Gly	Val	Ala	His	Ser	Phe	Pro	Gln	Val	Met	Met	Leu	Val	Cys
145					150					155					160
Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Tyr	Cys	Asp	Val
			165						170					175	
Phe	Pro	Leu	Leu	Lys	Val	Ala	Cys	Thr	Asp	Thr	Tyr	Ile	Ile	Gly	Val
			180					185					190		
Leu	Met	Val	Ala	Asn	Ser	Gly	Met	Val	Ala	Phe	Val	Ile	Phe	Val	Leu
		195					200					205			
Leu	Phe	Gly	Ser	Tyr	Val	Val	Ile	Leu	Phe	Thr	Leu	Arg	Asn	Tyr	Ser
	210					215					220				
Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ser
225					230					235					240
Val	Val	Ile	Leu	Phe	Gly	Pro	Ser	Ile	Phe	Val	Tyr	Leu	Arg	Pro	
			245					250					255		
Pro	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Ile	Phe	Ala	Leu	Phe	Tyr	Thr	Ile
			260					265					270		
Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Thr	Glu
		275					280					285			
Met	Lys	Ser	Ala	Ile	Lys	Lys	Val	Trp	Cys	Gln	Val	Thr	Phe	Leu	Gly
	290					295					300				
Glu	Lys	His	Asn												
305															

<210> 2268  
<211> 118  
<212> PRT  
<213> Mus musculus

<400> 2268

Gly	Ile	Val	Val	Thr	Ala	Asn	Ser	Gly	Thr	Ile	Ala	Leu	Gly	Ser	Phe
1				5					10					15	

Val	Ile	Leu	Leu	Ile	Ser	Tyr	Thr	Val	Ile	Leu	Met	Ser	Leu	Arg	Lys
		20						25					30		
Gln	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His
		35					40					45			
Ile	Ala	Val	Val	Ile	Ile	Phe	Phe	Gly	Pro	Cys	Thr	Phe	Met	Tyr	Met
	50					55					60				
Arg	Pro	Asp	Thr	Thr	Phe	Ser	Glu	Asp	Lys	Met	Val	Ala	Ile	Phe	Tyr
65					70					75					80
Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
				85					90					95	
Ala	Glu	Val	Lys	Asn	Ala	Met	Arg	Lys	Leu	Trp	Ala	Arg	Lys	Phe	Ser
			100					105					110		
Trp	Glu	Thr	Thr	Gly	Lys										
			115												

<210> 2269  
 <211> 122  
 <212> PRT  
 <213> Mus musculus

Met	His	Asn	Asn	Ser	Met	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln
1				5					10					15	
Asp	Pro	Glu	Gln	Gln	Lys	Ala	Ile	Phe	Gly	Val	Phe	Leu	Ile	Leu	Tyr
			20					25					30		
Leu	Met	Thr	Leu	Ile	Gly	Asn	Phe	Leu	Ile	Met	Val	Thr	Ile	Lys	Met
		35				40					45				
Ser	Gln	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Val	Phe	Leu	Phe	Tyr	Leu	Ser
	50				55					60					
Phe	Ala	Asp	Ala	Cys	Phe	Ser	Thr	Thr	Thr	Ala	Pro	Arg	Leu	Ile	Val
65					70					75					80
Asn	Ala	Leu	Ser	Gln	Lys	Lys	Ile	Ile	Ser	Tyr	Asn	Glu	Cys	Met	Thr
				85					90					95	
Gln	Val	Phe	Ala	Ala	His	Phe	Phe	Gly	Cys	Met	Glu	Ile	Phe	Val	Leu
			100					105					110		
Ile	Leu	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala						
		115					120								

<210> 2270  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

Met	Glu	Pro	Tyr	Asn	Leu	Thr	Gly	Thr	Leu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Leu	Ile	Leu	Phe	Ala	Leu	Phe	Met
			20					25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35				40					45				
Ile	Ser	Cys	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Phe	Tyr
	50				55					60					
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Leu	His	Val	His	Asn	Arg	Ser	Ile	Thr	Tyr	Ala	Glu
			85					90						95	
Cys	Leu	Thr	Arg	Val	Tyr	Phe	Phe	Phe	Leu	Phe	Gly	Gly	Met	Asp	Ser

Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	Arg
		115						120					125		
Pro	Leu	His	Tyr	Gln	Val	Ile	Leu	Ser	Pro	Arg	Leu	Cys	Arg	Cys	Leu
	130					135					140				
Val	Ile	Val	Ser	Leu	Ser	Ile	Ser	Leu	Val	Ser	Ser	Gln	Val	His	Cys
	145				150					155					160
Leu	Leu	Val	Ser	Gln	Leu	Thr	Phe	Cys	Ile	Asn	Val	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Val	Lys	Leu	Ala	Cys	Ser	Asn	Thr
			180					185					190		
Thr	Ile	Asn	Asp	Ile	Val	Met	Phe	Leu	Leu	Ser	Ile	Ile	Val	Gly	Phe
	195						200					205			
Leu	Pro	Ala	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Thr	Ser	Ser
	210					215					220				
Ile	Phe	Arg	Val	Pro	Ser	Leu	Leu	Ala	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
	225				230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Gly	Ile
				245				250						255	
Gly	Val	Tyr	Leu	Ser	Ser	Thr	Val	Ser	Ser	Ser	Ser	Arg	Glu	Ser	Met
			260					265					270		
Val	Ala	Ser	Val	Met	Tyr	Thr	Met	Val	Val	Pro	Met	Met	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Lys	Ser	Leu	Trp	Lys	Ile
	290					295					300				
Val	His	Gln	Ile	Thr											
	305														

<210> 2271

<211> 515

<212> PRT

<213> Mus musculus

<220>

<221> CONFLICT

<222> (197)...(204)

<223> Any amino acid

<400> 2271

Met	Asn	Asp	Thr	Phe	Ile	Val	Thr	Met	Phe	Ala	Tyr	Phe	Gln	Val	Lys
1				5					10					15	
Thr	Ala	Asn	Phe	Met	Glu	Gln	Glu	Asn	Ile	Thr	Ala	Thr	Ser	Ile	Phe
			20					25					30		
Ile	Leu	Leu	Gly	Leu	Ser	Lys	Glu	Thr	Asp	Ile	Gln	Pro	Leu	Val	Phe
	35						40					45			
Gly	Leu	Phe	Leu	Phe	Ile	Tyr	Leu	Val	Cys	Ile	Thr	Gly	Asn	Met	Leu
	50					55					60				
Ile	Ile	Leu	Ile	Ile	Thr	Ser	Asp	Ala	His	Leu	Gln	Thr	Pro	Met	Tyr
	65				70				75					80	
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Thr	Asp	Ile	Cys	Phe	Ile	Ser	Thr
			85					90					95		
Thr	Val	Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Asn	Lys	Ser	Ile
			100					105					110		
Thr	Tyr	Glu	Gly	Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Met	Phe	Phe	Ser
	115						120					125			
Gly	Leu	Asp	Ser	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val
	130					135					140				
Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Met	Ile	Val	Met	Ser	Pro	His	Leu

145					150					155				160
Cys	Val	Ser	Leu	Leu	Leu	Leu	Ser	Cys	Leu	Ile	Cys	Leu	Ala	Tyr
				165					170					175
Leu	Leu	Gln	Thr	Leu	Phe	Phe	Phe	Ser	Ile	Phe	Tyr	Val	Phe	Asn
			180					185					190	
Phe	Thr	Phe	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Tyr	Lys
		195					200					205		
Cys	Lys	Ser	Asn	Gly	Pro	Leu	Phe	Pro	Val	Met	Ala	Asp	Ala	Ile
	210					215					220			
Tyr	Ile	Cys	Ser	Ser	Gln	Glu	Leu	Arg	Gly	Thr	Gly	Leu	Ile	Met
225					230					235				240
Phe	His	Leu	Gly	Cys	Arg	Ser	Leu	Leu	Leu	Gly	Tyr	Phe	Leu	Leu
			245						250					255
His	Trp	Glu	Pro	Tyr	Asp	Pro	Ser	Ile	Ser	Leu	Ala	Ser	Thr	Ser
			260						265					270
Phe	Ala	Gly	Pro	Arg	His	Ser	Leu	Thr	Arg	Asp	Ser	Tyr	Ile	Cys
		275					280					285		
Leu	Ser	Ile	Lys	Ser	Cys	Cys	Met	Gln	Trp	Cys	Gln	Arg	Leu	Asp
	290					295					300			
Asp	Tyr	Gly	Val	Asp	Pro	Trp	Leu	Trp	Gln	Ser	Leu	His	Gly	Pro
305					310					315				320
Phe	His	Leu	Ser	Ser	Lys	Leu	Arg	Leu	Cys	Asn	Ser	Phe	His	Gly
				325					330					335
Phe	Val	Pro	Lys	Ser	Lys	Glu	Gly	His	Ser	Val	His	Thr	Ser	Val
			340					345					350	
Ile	Leu	Leu	Glu	Phe	His	Val	Leu	Gln	Thr	Leu	Met	Phe	Leu	Arg
		355					360					365		
Ser	Phe	Cys	Lys	Lys	Thr	Glu	Ile	Pro	His	Tyr	Phe	Cys	Glu	Leu
	370					375					380			
Gln	Ile	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Ala	Asn	Asp	Ile
385					390					395				400
Leu	Tyr	Cys	Val	Thr	Gly	Leu	Leu	Gly	Ile	Ile	Pro	Leu	Ser	Gly
				405					410					415
Leu	Phe	Ser	Tyr	Ser	Lys	Ile	Ile	Asn	Ser	Ile	Val	Gly	Ile	Ser
			420					425					430	
Ala	Arg	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu
		435					440					445		
Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Leu	Gly	Val	Tyr	Leu	Thr
	450					455					460			
Gln	Met	Ser	Tyr	Lys	Ser	Arg	Glu	Gly	Ser	Ile	Ala	Ser	Val	Met
465					470					475				480
Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg
				485					490					495
Lys	Asp	Leu	Asn	Gln	Ala	Leu	Arg	Arg	Phe	Phe	His	Ser	Thr	Gly
			500					505					510	
Arg	Phe	Arg												
		515												

<210> 2272  
 <211> 109  
 <212> PRT  
 <213> Mus musculus

<400> 2272  
 Met Glu Pro Tyr Asn Leu Thr Gly Thr Leu Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Glu Leu Gln Leu Ile Leu Phe Ala Leu Phe Leu  
 20 25 30



<210> 2274  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2274  
 Met Ala Pro Val Asn Gln Ser Val Val Thr Met Phe Ile Leu Gln Arg  
 1 5 10 15  
 Phe Val Asp Asp Pro Arg Val Gln Asp Val Leu Phe Cys Leu Phe Phe  
 20 25 30  
 Ala Leu Phe Val Ala Ala Ile Ala Gly Asn Gly Leu Ile Ile Ala Thr  
 35 40 45  
 Ile His Ser Ser Pro Asn Leu His Thr Pro Met Tyr Phe Phe Leu Val  
 50 55 60  
 Asn Leu Ala Leu Met Asp Val Ile Cys Thr Val Thr Val Leu Pro Lys  
 65 70 75 80  
 Val Leu Gln Ser Leu Val Ala Glu Asn Ser Ile Ser Tyr Gly Gly Cys  
 85 90 95  
 Leu Thr Gln Met Phe Val Phe Ser Trp Val Leu Gly Ser Glu Leu Leu  
 100 105 110  
 Leu Phe Ser Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg Pro  
 115 120 125  
 Leu His Tyr Gly Thr Leu Met Ser Gly Arg Val Cys Val Ala Leu Ala  
 130 135 140  
 Thr Phe Val Trp Phe Thr Gly Ala Phe Asn Ser Leu Val Leu Thr Cys  
 145 150 155 160  
 Leu Met Leu Pro Leu Ser Phe Cys Gly Pro Asn Leu Ile Thr His Phe  
 165 170 175  
 Phe Cys Glu Ile Pro Ser Val Leu Ile Leu Ser Cys Ser Pro Thr Phe  
 180 185 190  
 Ile Asn Asp Ile Met Thr Val Ile Ala Asp Met Phe Leu Thr Gly Leu  
 195 200 205  
 Asn Phe Leu Leu Thr Met Thr Ser Tyr Gly Phe Ile Ile Ser Ser Ile  
 210 215 220  
 Leu Arg Ile Arg Ser Ala Glu Gly Lys Lys Arg Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ala His Leu Val Val Val Thr Leu Tyr Tyr Ser Thr Val Leu Tyr  
 245 250 255  
 Thr Tyr Val Arg Pro Ala Leu Gly Thr Ala Gly Phe Leu Asp Lys Leu  
 260 265 270  
 Ile Ala Val Leu Tyr Thr Thr Val Thr Pro Ser Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Glu Phe Lys Thr Ser Phe Lys Lys Leu Ile  
 290 295 300  
 Ser Leu Leu Arg Thr  
 305

<210> 2275  
 <211> 188  
 <212> PRT  
 <213> Mus musculus

<400> 2275  
 Pro Phe Arg Tyr Pro Val Ile Met Ser Pro Gly Leu Ala Ala Phe Leu  
 1 5 10 15  
 Ala Gly Gly Ser Trp Leu Ser Gly Phe Thr Ile Ser Leu Gly Lys Val  
 20 25 30

Phe	Phe	Ile	Ser	Arg	Leu	Gly	Tyr	Cys	Gly	Pro	Asn	Val	Met	Asn	His	
		35					40					45				
Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Asn	Leu	Ala	Cys	Ser	Asp	Met	
		50				55					60					
Ser	Val	Ala	Glu	Leu	Val	Asp	Phe	Leu	Leu	Ala	Leu	Leu	Ile	Leu	Leu	
65					70					75					80	
Gly	Pro	Leu	Leu	Leu	Thr	Val	Phe	Ser	Tyr	Thr	Ala	Ile	Leu	Ser	Thr	
				85					90					95		
Val	Leu	Arg	Met	Pro	Ser	Ala	Gly	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	
			100					105					110			
Cys	Ala	Ser	His	Leu	Ala	Val	Val	Val	Ile	Phe	Tyr	Ser	Ala	Ser	Leu	
		115					120					125				
Phe	Ile	Tyr	Ala	Arg	Pro	Arg	Ala	Leu	Tyr	Ser	Phe	Asp	Tyr	Asn	Lys	
	130					135					140					
Leu	Val	Ser	Val	Val	Tyr	Thr	Val	Leu	Thr	Pro	Leu	Ile	Asn	Pro	Ile	
145					150					155					160	
Ile	Tyr	Cys	Leu	Arg	Asn	Gln	Glu	Val	Lys	Gln	Ala	Leu	His	Lys	Val	
				165					170					175		
Gln	Gln	Arg	Ala	Ala	Gln	Val	Leu	Gly	Ala	Ser	Ser					
			180					185								

<210> 2276  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2276

Met	Ala	Phe	Gln	Ala	Asp	Gly	Asn	His	Thr	Thr	Val	Thr	Glu	Phe	Leu	
1				5					10					15		
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Thr	
			20					25					30			
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr	
		35					40					45				
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
		50				55					60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Ile	Ser	Ser	Ser	Val	
65				70						75					80	
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Val	Glu	Arg	Asn	Thr	Ile	Ser	
			85						90					95		
Tyr	Leu	Gly	Trp	Gly	Ile	Gln	Leu	Ser	Phe	Gly	Asp	Ile	Phe	Gly	Ser	
			100					105					110			
Val	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Met	Ala	
		115					120					125				
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys	
	130					135					140					
Val	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Leu	Leu	Asn	Ala	Ser	
145					150					155					160	
Phe	Ala	Met	Val	Ser	Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Ser	Asn	Arg	
				165					170					175		
Val	Glu	His	Phe	Phe	Cys	Asp	Phe	Val	Pro	Leu	Ala	Glu	Leu	Ser	Cys	
			180					185				190				
Ser	Asp	Ile	Ser	Ile	Ser	Val	Val	Leu	Val	Ser	Phe	Ser	Ala	Gly	Ser	
	195					200						205				
Val	Thr	Met	Leu	Thr	Val	Phe	Ile	Ile	Val	Ile	Ser	Tyr	Ser	Tyr	Ile	
	210					215						220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala	
225					230					235					240	
Phe	Ser	Thr	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	





<210> 2278  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2278

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Met Val Asn Gln Ser Ser Pro Val Val Phe Phe Leu Leu Gly Phe Phe
 1          5          10          15
Glu His Pro Gln Leu Glu Lys Val Leu Phe Val Val Val Leu Cys Ser
          20          25          30
Tyr Leu Leu Thr Leu Leu Gly Asn Thr Leu Ile Leu Leu Leu Ser Thr
          35          40          45
Leu Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
 50          55          60
Ser Phe Leu Asp Leu Cys Phe Thr Thr Thr Cys Val Pro Gln Met Leu
 65          70          75          80
Phe Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser Phe Leu Gly Cys Phe
          85          90          95
Val Leu Phe Ile Phe Met Ser Leu Gly Thr Thr Glu Cys Ile Leu Leu
          100          105          110
Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu His
          115          120          125
Tyr Ala Thr Val Ile Asn Pro Arg Leu Cys Gln Gln Leu Ala Gly Ile
          130          135          140
Ala Trp Ala Ile Gly Leu Val Gln Ser Ile Val Gln Thr Pro Pro Thr
 145          150          155          160
Leu Lys Leu Pro Phe Cys Ser His Arg Gln Ile Asp Asn Phe Val Cys
          165          170          175
Glu Val Pro Ser Leu Ile Gln Leu Ser Cys Gly Asp Ile Thr Tyr Asn
          180          185          190
Glu Ile Gln Met Ala Val Ala Ser Ile Phe Ile Val Val Val Pro Leu
          195          200          205
Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Ala Arg Ala Val Leu Lys
          210          215          220
Ile Ser Ser Ala Lys Gly Arg Arg Lys Ala Phe Gly Thr Cys Ser Ser
 225          230          235          240
His Leu Ile Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val Tyr
          245          250          255
Leu Gln Pro Lys Asn Pro Tyr Ala Arg Glu Arg Gly Lys Phe Phe Gly
          260          265          270
Leu Phe Tyr Ala Val Gly Thr Pro Thr Leu Asn Pro Leu Val Tyr Thr
          275          280          285
Leu Arg Asn Lys Glu Val Lys Arg Ala Phe Trp Lys Leu Leu Arg Lys
          290          295          300
Asp Glu Asp Ser Glu Glu Ser
 305          310

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<210> 2279  
 <211> 274  
 <212> PRT  
 <213> Mus musculus

<400> 2279

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Gly Thr His Phe Ile Leu Leu Leu Ser Thr Leu Asp Pro Arg Leu His
 1          5          10          15
Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys
          20          25          30
Phe Thr Thr Thr Cys Val Pro Gln Met Leu Phe Asn Leu Trp Gly Pro

```



Ile	Leu	Met	Ser	Tyr	Ala	Gln	Phe	Val	Val	Ile	Val	Leu	Arg	Ile	Pro
				165					170					175	
Ser	Gly	Ala	Arg	Arg	Thr	Lys	Ala	Phe	Phe	Thr	Cys	Ser	Ser	His	Leu
			180					185					190		
Ala	Met	Met	Phe	Thr	Phe	Tyr	Gly	Ser	Leu	Met	Val	Trp	Tyr	Thr	Ala
		195					200					205			
Pro	Ser	Ala	Val	Leu	Ser	Leu	Gln	Leu	Leu	Ser	Lys	Val	Ile	Ala	Leu
	210					215					220				
Leu	Tyr	Thr	Val	Phe	Ala	Pro	Ile	Phe	Asn	Ser	Val	Ile	Tyr	Thr	Leu
225					230					235					240
Arg	Asn	Leu	Asp	Met	Gln	Lys	Ala	Leu	Arg	Arg	Leu	Leu	Tyr	Cys	Lys
				245					250					255	
Ser	Thr	Glu	Met												
			260												

<210> 2281

<211> 251

<212> PRT

<213> Mus musculus

<400> 2281

Asp	Thr	Pro	Leu	His	Pro	Pro	Pro	Ser	Phe	Phe	Leu	Ser	Tyr	Leu	Val
1				5					10					15	
Leu	Gln	Gly	Trp	Lys	Ala	Glu	Tyr	Arg	Lys	Ala	Val	Glu	Lys	Gly	Thr
			20					25					30		
His	Lys	Val	Ala	Lys	Ser	Leu	Val	Thr	Leu	Pro	Gly	Cys	Leu	Leu	Gln
		35					40					45			
Phe	Phe	Thr	Phe	Ser	Ser	Leu	Tyr	Ile	Asp	Glu	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Leu	Met	Ala	Tyr	Asp	His	Cys	Leu	Ala	Ile	Cys	Tyr	Ser	Leu	Tyr	Pro
65					70					75					80
Arg	Leu	Met	Arg	Pro	Gln	Trp	Cys	Leu	Gly	Leu	Val	Leu	Thr	Val	Trp
				85					90					95	
Val	Ser	Gly	Phe	Met	Glu	Asp	Gly	Leu	Val	Val	Ala	Leu	Thr	Ala	Gln
			100					105					110		
Leu	Arg	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	His	Phe	Tyr	Cys	Asp	Phe
		115					120					125			
Ser	Pro	Leu	Met	Ala	Cys	Phe	Asp	Thr	Val	Ala	Gln	Met	Thr	Thr	Phe
	130						135					140			
Val	Leu	Ser	Val	Ile	Phe	Leu	Thr	Val	Pro	Phe	Gly	Leu	Val	Leu	Ile
145					150					155					160
Ser	Tyr	Ala	Gln	Ile	Val	Val	Thr	Val	Leu	Arg	Ile	Leu	Ser	Gly	Ala
				165					170					175	
Arg	Arg	Thr	Lys	Ala	Phe	Phe	Ile	Cys	Pro	Ser	His	Leu	Ala	Val	Val
			180					185					190		
Ser	Thr	Leu	Tyr	Gly	Thr	Leu	Met	Gly	Leu	Tyr	Thr	Val	Pro	Phe	Val
		195					200					205			
Val	His	Ser	Gln	Leu	Leu	Thr	Lys	Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val
	210					215					220				
Phe	Thr	Pro	Val	Phe	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Lys	Asn	Gln	Glu
225					230					235					240
Val	Gln	Gln	Ala	Leu	Arg	Arg	Leu	Leu	Tyr	Cys					
				245					250						

<210> 2282

<211> 301

<212> PRT

<213> Mus musculus

<400> 2282

Ile	Ile	Gly	Phe	Pro	Met	Gln	Gly	Gly	Gln	Pro	Asn	Tyr	Ile	Tyr	Ile
1				5					10					15	
His	Lys	Gln	Gln	Lys	Trp	Thr	Gln	Gln	Ile	Val	Tyr	Ile	Tyr	Val	Cys
			20					25				30			
Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Ala	Tyr	Val	His	Thr
		35					40				45				
Tyr	Thr	Tyr	Lys	Tyr	Ile	Cys	Val	Tyr	Lys	Trp	Leu	Ser	Ser	Lys	Ser
	50					55				60					
Ser	Arg	Asp	Leu	Glu	Gly	Gly	Trp	Lys	Met	Ser	Val	Glu	Lys	Arg	Thr
65					70				75					80	
Gln	Ser	Arg	Gln	Lys	Ser	Gly	Tyr	Thr	Gly	Gln	Leu	Leu	Pro	Pro	Val
			85						90					95	
Leu	His	Pro	Trp	Leu	Cys	Arg	Lys	Tyr	Phe	Leu	Leu	Ile	Val	Met	Val
			100					105					110		
Tyr	Asp	His	Tyr	Leu	Thr	Ile	Cys	His	His	Leu	Tyr	Pro	Phe	Leu	Met
		115					120					125			
Gly	Pro	Leu	Trp	Gly	Leu	Gly	Phe	Gly	Leu	Thr	Thr	Ser	Phe	Val	Val
	130					135					140				
Asp	Glu	Leu	Ile	Val	Ala	Leu	Met	Ala	Gln	Leu	Arg	Phe	Cys	Val	Pro
145					150				155						160
Lys	Gln	Ile	Asp	His	Phe	Tyr	Tyr	Asp	Phe	Ser	Pro	Leu	Val	Val	Leu
			165					170						175	
Ala	Tyr	Thr	Asp	Thr	Gly	Leu	Val	Gln	Val	Thr	Thr	Phe	Val	Leu	Phe
			180					185					190		
Val	Val	Phe	Leu	Thr	Val	Pro	Phe	Gly	Leu	Val	Leu	Ile	Ser	Cys	Ala
		195					200					205			
Gln	Ile	Ala	Val	Thr	Val	Leu	Arg	Val	Pro	Ser	Arg	Thr	Arg	Arg	Asn
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Asp	Glu	Val	Ser	Thr	Phe
225					230				235						240
Tyr	Gly	Ser	Leu	Met	Val	Trp	Tyr	Thr	Glu	Pro	Ser	Ala	Val	His	Ser
			245						250					255	
Gln	Ile	Leu	Ser	Lys	Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val	Val	Thr	Thr
			260					265					270		
Ile	Phe	Asp	Pro	Gly	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Gln	Gln
		275					280					285			
Ser	Leu	Arg	Arg	His	Leu	Tyr	Cys	Lys	Pro	Thr	Glu	Met			
	290					295					300				

<210> 2283

<211> 293

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (68)...(111)

<223> Any amino acid

<400> 2283

Met	Glu	Asp	Met	Ala	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Lys	Ser	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Met	Ala	Gly	Asn	Leu	Gly	Met

		35				40				45							
Ile	Thr	Leu	Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr		
	50					55					60						
Phe	Leu	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	
65					70					75						80	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
				85					90						95		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	
			100					105						110			
Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu	Ile	Ser		
	115						120					125					
Gly	Val	Tyr	Ile	Phe	Ala	Val	Ile	Cys	Ser	Ser	Phe	Asn	Thr	Gly	Phe		
130						135					140						
Met	Leu	Arg	Thr	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His	Tyr	Phe		
145					150					155					160		
Cys	Asp	Leu	Leu	Pro	Leu	Leu	Asn	Leu	Ala	Ser	Ser	Asn	Thr	Tyr	Ile		
				165					170					175			
Asn	Glu	Ile	Leu	Ile	Leu	Phe	Phe	Ala	Thr	Leu	Asn	Ser	Phe	Val	Pro		
			180					185					190				
Val	Leu	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Val	Thr	Ile	Leu		
	195					200						205					
Ser	Ile	His	Ser	Arg	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr	Cys	Ser		
210						215						220					
Thr	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly	Ser	Gly	Ala	Phe	Thr		
225					230					235					240		
Tyr	Leu	Gln	Pro	Ser	Ser	Leu	Asn	Ser	Met	Gly	Gln	Ala	Lys	Val	Ser		
				245					250					255			
Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr		
			260					265					270				
Ser	Leu	Arg	Asn	Lys	Asp	Val	Ser	Ile	Ala	Leu	Lys	Lys	Ile	Leu	Glu		
		275				280						285					
Arg	Lys	Lys	Phe	Met													
	290																

<210> 2284  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2284

Met	Glu	Asp	Met	Thr	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Val	Phe	Phe		
1				5					10					15			
Leu	Ala	Gly	Leu	Ser	Glu	Gln	Ser	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu		
			20					25				30					
Phe	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Val	Ser	Gly	Asn	Leu	Gly	Met		
		35					40					45					
Ile	Ile	Leu	Ile	Gly	Leu	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Tyr			
	50					55				60							
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Gly	Gln	Ser	Thr	Val	Val		
65				70					75						80		
Thr	Pro	Lys	Met	Leu	Val	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Phe	Ile	Thr		
			85					90					95				
Tyr	Pro	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Val	Ile	Ile	Phe	Gly	Thr		
		100					105						110				
Ala	Glu	Ser	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala		
		115					120					125					
Ile	Cys	Asn	Thr	Leu	Val	Tyr	Asn	Ile	Ala	Met	Ser	Ser	Gln	Ile	Tyr		
	130					135					140						

Cys Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Phe Cys Ala Ser  
 145 150 155 160  
 Val Asn Met Gly Phe Met Phe Arg Ile Gln Phe Cys Lys Ser Asp Val  
 165 170 175  
 Ile Asn

<210> 2285  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2285  
 Ser Tyr Gln Val Cys Leu Leu Met Val Ala Val Val Tyr Gly Ile Gly  
 1 5 10 15  
 Leu Ile Ser Ala Thr Ala His Thr Val Phe Leu Leu Arg Leu Phe Phe  
 20 25 30  
 Cys Lys Ala Asp Lys Ile Asn His Tyr Phe Cys Asp Leu Phe Pro Leu  
 35 40 45  
 Leu Glu Leu Ser Cys Ser Ser Thr Phe Ile Asn Glu Ile Leu Ala Leu  
 50 55 60  
 Ser Phe Ser Ala Phe Asn Ile Ile Val Pro Ala Met Thr Ile Ile Gly  
 65 70 75 80  
 Ser Tyr Ile Phe Ile Ile Ile Ser Ile Leu His Ile Lys Ser Ser Gly  
 85 90 95  
 Gly Arg Val Lys Ala Phe Arg Thr Cys Ser Ser His Ile Leu Ala Val  
 100 105 110  
 Ala Ile Phe Phe Gly Ser Thr Thr Phe Met Tyr Leu Gln Pro Ser Ser  
 115 120 125  
 Val Ser Ser Met Asp Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Ile  
 130 135 140  
 Val Val Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Asp  
 145 150 155 160  
 Val Lys Val Ala Leu Lys Lys Leu Leu Gln Lys Met Phe Pro Gln Asn  
 165 170 175  
 Lys Glu

<210> 2286  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2286  
 Val Cys Leu Leu Leu Met Ser Val Cys Trp Ile Leu Gly Ser Leu Asp  
 1 5 10 15  
 Gly Phe Met Leu Thr Pro Ile Thr Met Thr Phe Pro Phe Cys Gly Ser  
 20 25 30  
 Arg Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Lys Leu  
 35 40 45  
 Ser Cys Ser Asp Thr Trp Leu Tyr Glu Thr Leu Met Tyr Val Cys Cys  
 50 55 60  
 Val Leu Met Leu Leu Ile Pro Val Thr Val Ile Ser Gly Ser Tyr Thr  
 65 70 75 80  
 Ser Ile Leu Leu Thr Val Leu Arg Met Asn Ser Ala Glu Gly Arg Lys  
 85 90 95  
 Lys Ala Leu Ala Thr Cys Ser Ser His Met Thr Val Val Thr Leu Phe





<210> 2288  
 <211> 259  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> CONFLICT  
 <222> (71)...(83)  
 <223> Any amino acid

<400> 2288  
 Met Asp Leu Thr Thr Trp Met Asn Asn Tyr Thr Gly Gln Ser Asp Phe  
 1 5 10 15  
 Thr Leu Val Gly Leu Phe Ser Gln Ser Lys His Pro Ala Leu Leu Ala  
 20 25 30  
 Val Val Ile Phe Val Val Phe Leu Met Ala Leu Ser Gly Asn Ala Leu  
 35 40 45  
 Leu Ile Leu Leu Ile Leu Ser Asp Thr His Leu His Thr Pro Met Tyr  
 50 55 60  
 Phe Leu Ser Ala Ser Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 65 70 75 80  
 Xaa Xaa Xaa Val Cys Leu Leu Leu Met Ser Val Cys Trp Val Leu Gly  
 85 90 95  
 Ser Leu Trp Asp Gly Phe Met Leu Thr Pro Val Thr Met Thr Phe Pro  
 100 105 110  
 Ile Cys Gly Ser Arg Glu Ile His His Phe Phe Cys Glu Val Pro Ala  
 115 120 125  
 Val Thr Lys Leu Ser Cys Ser Asp Thr Trp Leu Tyr Glu Thr Leu Met  
 130 135 140  
 Tyr Val Cys Cys Val Leu Met Leu Leu Ile Pro Val Thr Val Ile Ser  
 145 150 155 160  
 Gly Ser Tyr Thr Ser Ile Leu Leu Thr Val Leu Arg Met Asn Ser Ala  
 165 170 175  
 Glu Gly Arg Lys Lys Ala Leu Ala Thr Cys Ser Ser His Met Thr Val  
 180 185 190  
 Val Thr Leu Phe Tyr Gly Ala Ala Val Tyr Thr Tyr Met Leu Pro Ala  
 195 200 205  
 Ser Leu His Thr Pro Glu Lys Asp Met Val Val Ser Val Phe Tyr Thr  
 210 215 220  
 Ile Leu Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys  
 225 230 235 240  
 Asn Val Thr Glu Ala Met Lys Lys Leu Leu Gly Glu Asn Pro Ser Phe  
 245 250 255  
 Gln Lys Gln

<210> 2289  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2289  
 Trp Asp Leu Ser Ser Pro Ile Leu Leu Gly Leu Phe Pro Glu Leu Cys  
 1 5 10 15  
 His Leu Gly Ile Leu Val Ile Ser Ile Leu Leu Ile Tyr Leu Ile Ala  
 20 25 30



<210> 2291  
 <211> 277  
 <212> PRT  
 <213> Mus musculus

<400> 2291  
 Tyr Leu Val Thr Val Phe Gly Asn Leu Ser Thr Ile Leu Leu Ile Gly  
 1 5 10 15  
 Val Ser Ser Lys Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu  
 20 25 30  
 Ala Ser Val Asp Met Gly Leu Ser Ser Val Thr Pro Asn Met Leu  
 35 40 45  
 Val Asn Phe Leu Thr Glu Lys Asn Thr Ile Ser Tyr Leu Gly Cys Gly  
 50 55 60  
 Ile Gln Leu Ser Ser Ala Ala Phe Phe Gly Ala Val Glu Phe Phe Leu  
 65 70 75 80  
 Leu Ala Ala Met Ala Tyr Asp Arg Leu Val Ala Ile Cys Asn Pro Leu  
 85 90 95  
 Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys Ile Gln Leu Val Val  
 100 105 110  
 Gly Thr Tyr Val Gly Gly Phe Leu Asn Ala Ser Phe Val Thr His Phe  
 115 120 125  
 Phe Phe Ser Phe Leu Phe Cys Gly Pro Asn Arg Val Asn His Phe Phe  
 130 135 140  
 Cys Asp Leu Ser Pro Met Met Glu Leu Ser Cys Ser Asp Val Ser Ile  
 145 150 155 160  
 Ser Glu Ile Val Ile Ser Phe Ser Ala Gly Ser Phe Thr Met Thr Thr  
 165 170 175  
 Leu Phe Val Ile Val Ile Ser Tyr Phe Tyr Ile Val Ile Thr Ile Leu  
 180 185 190  
 Lys Met His Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Met  
 195 200 205  
 Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly Thr Thr Ile Phe Ile  
 210 215 220  
 Tyr Val Met Pro Lys Ser Ile Tyr Ser Arg Asp Gln Asn Lys Val Val  
 225 230 235 240  
 Ser Leu Phe Tyr Val Val Ile Pro Val Leu Asn Pro Leu Ile Tyr  
 245 250 255  
 Ser Leu Arg Asn Asn Glu Ile Lys Asp Ala Leu Lys Arg Gln Phe Tyr  
 260 265 270  
 Arg Lys Thr Leu Leu  
 275

<210> 2292  
 <211> 208  
 <212> PRT  
 <213> Mus musculus

<400> 2292  
 Met Ile Ser Tyr Gly Phe Pro Gly Gln Trp Asn His Thr Ala Val Thr  
 1 5 10 15  
 Glu Phe Ile Leu Leu Gly Leu Thr Asp Pro Val Leu Arg Val Ile  
 20 25 30  
 Leu Phe Ser Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn  
 35 40 45

Leu	Ser	Thr	Phe	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro
50						55					60				
Met	Tyr	Phe	Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser
65					70					75					80
Ser	Ser	Val	Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Arg	His
				85					90					95	
Ser	Ile	Ser	Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe
			100					105					110		
Phe	Gly	Ala	Val	Glu	Phe	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Leu	Ser	Thr
	130					135					140				
Gln	Val	Cys	Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Val	Gly	Gly	Phe	Leu
145					150					155					160
Asn	Ala	Ser	Phe	Val	Thr	His	Phe	Phe	Phe	Ser	Phe	Phe	Phe	Cys	Gly
				165					170					175	
Pro	Asn	Arg	Val	Asn	Tyr	Phe	Phe	Cys	Asp	Phe	Pro	Pro	Met	Met	Glu
			180					185					190		
Leu	Ser	Cys	Ser	Asp	Val	Ser	Val	Ser	Gly	Ile	Val	Ile	Ser	Phe	Thr
		195					200					205			

<210> 2293  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2293

Met	Ala	Phe	Ile	Tyr	Asn	Gly	Ser	Gln	Thr	Thr	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Lys	Val	Ile	Leu	Phe	Ser
			20					25				30			
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Gly	Val	Ser	Ser	Lys	Leu	His	His	Pro	Met	Tyr	Phe
					55						60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Lys	Asn	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe	Phe	Gly	Ala
			100					105					110		
Val	Glu	Phe	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Val	Val	Gly	Thr	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Val	Thr	His	Phe	Phe	Phe	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Arg	Val
				165					170					175	

Asn

<210> 2294  
 <211> 189  
 <212> PRT  
 <213> Mus musculus

<400> 2294

Met	Ala	His	Asn	Asn	Glu	Ser	Thr	Val	Ser	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Lys	Ser	Trp	Gly	Leu	Gln	Leu	Val	Leu	Phe	Thr	Ile	Phe	Phe
			20					25					30		
Val	Ile	Tyr	Val	Thr	Ser	Val	Leu	Gly	Asn	Ile	Met	Ile	Ile	Val	Ile
		35					40					45			
Ile	Phe	Ser	Asp	Ser	His	Leu	Asn	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Gln	Ser	Asn	Phe	Ala	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Phe	Phe	Val	Glu	Tyr	Lys	Thr	Ile	Ser	Phe	Glu	Gly
			85						90					95	
Cys	Met	Ala	Gln	Ile	Phe	Leu	Leu	His	Ser	Phe	Val	Gly	Ser	Glu	Met
			100					105					110		
Met	Leu	Leu	Val	Ala	Met	Gly	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Asn	Leu	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Ile	Phe
		130				135					140				
Val	Ser	Ile	Ser	Trp	Ala	Val	Gly	Ile	Leu	His	Ser	Val	Ser	His	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Val	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys			
			180					185							

<210> 2295

<211> 149

<212> PRT

<213> Mus musculus

<400> 2295

Ala	Leu	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	His	Asn	Ile	Ile	Asn	Asn
1				5					10					15	
Ile	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Ile	Glu	Thr
			20					25					30		
Tyr	Thr	Leu	Glu	Leu	Phe	Val	Ile	Ala	Asp	Ser	Gly	Leu	Leu	Ser	Phe
		35					40					45			
Ile	Ser	Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Thr	Val	Ile	Leu	Leu	Ile
	50					55					60				
Ile	Lys	His	Lys	Ser	Pro	Gly	Ser	Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu
65					70					75					80
Ser	Ala	His	Ile	Ile	Val	Val	Thr	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
			85						90					95	
Ile	Tyr	Ala	Trp	Pro	Phe	Gly	Ser	Phe	Ala	Ser	Asn	Thr	Thr	Leu	Ala
			100					105					110		
Val	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr
		115				120						125			
Leu	Arg	Asn	Gln	Glu	Met	Lys	Lys	Ala	Met	Arg	Lys	Leu	Trp	Ile	Gln
	130					135					140				
Gln	Val	Ser	Cys	Thr											
145															

<210> 2296

<211> 290

<212> PRT

<213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (86)...(91)  
 <223> Any amino acid

<400> 2296

Met	Ala	Val	Thr	Asn	Glu	Ser	His	Pro	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ala	Asn	His	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Thr	Leu	Leu
		20						25				30			
Ile	Thr	Tyr	Pro	Met	Ala	Leu	Met	Gly	Asn	Ile	Ala	Ile	Ile	Leu	Val
	35					40					45				
Ser	Thr	Leu	Asp	Pro	Arg	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Lys
	50					55				60					
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65				70					75					80	
Met	Leu	Phe	Asn	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Leu	Ala	Ile	Met
			85					90						95	
Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Leu
		100						105					110		
Ile	Met	Asn	Gln	Arg	Val	Cys	Ile	Leu	Ser	Val	Ser	Ile	Met	Trp	Leu
	115						120					125			
Thr	Gly	Val	Ile	Phe	Gly	Phe	Ser	Glu	Ala	Thr	Leu	Thr	Leu	Gln	Leu
	130				135						140				
Pro	Leu	Cys	Gly	Thr	Asn	Lys	Leu	Asp	His	Leu	Leu	Cys	Glu	Ile	Pro
145				150					155					160	
Val	Leu	Ile	Lys	Thr	Ala	Cys	Gly	Glu	Lys	Glu	Phe	Asn	Glu	Leu	Ala
			165					170						175	
Leu	Ser	Val	Val	Cys	Ile	Phe	Ile	Leu	Ile	Val	Pro	Leu	Cys	Leu	Ile
		180					185					190			
Leu	Ala	Ser	Tyr	Val	Asn	Ile	Gly	Cys	Ala	Val	Leu	Arg	Ile	Lys	Ser
	195						200					205			
Ser	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Ile
	210				215					220					
Val	Val	Ser	Leu	Phe	Tyr	Gly	Pro	Gly	Ile	Ser	Met	Tyr	Leu	Gln	Pro
225				230					235					240	
Ser	Ser	Ser	Ile	Thr	Arg	Asp	Gln	Pro	Lys	Phe	Met	Ala	Leu	Phe	Tyr
			245						250					255	
Ala	Val	Ile	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn
		260					265						270		
Lys	Asp	Val	Lys	Gly	Ala	Phe	Lys	Lys	Leu	Leu	Arg	Ser	Ile	Phe	Ser
	275						280					285			
Ser	Lys														
	290														

<210> 2297  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (197)...(270)  
 <223> Any amino acid

<400> 2297

Met Glu Val Asn Arg Ser Gln Val Thr Asp Phe Val Leu Lys Gly Ile

1				5					10					15			
Thr	Asp	His	Thr	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Leu	Phe	Phe	Phe		
			20					25					30				
Ile	Tyr	Val	Thr	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Phe	Leu	Ile		
		35					40					45					
Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Gly	Ser		
	50					55					60						
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Thr	Ser	Ser	Ser	Val	Thr	Pro	Arg	Met		
65				70						75					80		
Leu	Val	Asn	Ile	Leu	Asp	Asn	Gly	Lys	Met	Ile	Ser	Leu	Ser	Glu	Cys		
				85				90						95			
Met	Ala	Gln	Tyr	Tyr	Val	Phe	Gly	Ser	Ser	Ala	Thr	Thr	Glu	Cys	Phe		
		100						105					110				
Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro		
		115					120					125					
Leu	Leu	Tyr	Leu	Val	Val	Met	Ser	Asn	Arg	Val	Cys	Thr	Cys	Leu	Ile		
	130					135					140						
Ser	Gly	Ser	Tyr	Ile	Ile	Gly	Phe	Leu	His	Pro	Leu	Ile	His	Val	Gly		
145				150						155					160		
Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Ile	Ile	Asp	His	Phe		
				165					170					175			
Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Thr	Ile	Ser	Cys	Thr	Asp	Pro	Ser		
		180						185					190				
Ile	Asn	Ala	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
		195					200					205					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
	210						215					220					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
225				230						235					240		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	
				245					250						255		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Met	Tyr	
			260					265					270				
Val	Ser	Pro	Gly	Ser	Gly	Pro	Ser	Lys	Tyr	Lys	Asn	Lys	Met	Tyr	Ser		
		275					280					285					
Leu	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser		
	290					295					300						
Leu	Arg	Asn	Lys	Glu	Val	Leu	Gly	Ala	Leu	Arg	Lys	Ile	Ile	Lys	Ser		
305					310					315					320		

<210> 2298

<211> 306

<212> PRT

<213> Mus musculus

<400> 2298

Met	Thr	Val	Glu	Asn	Gln	Thr	Val	Val	Ala	Val	Phe	Val	Leu	Thr	Gly		
1				5					10				15				
Leu	Thr	Glu	Arg	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Val	Phe	Phe		
		20						25				30					
Thr	Ile	Tyr	Leu	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ala	Leu		
		35					40					45					
Ile	Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Gly		
	50					55					60						
Ser	Leu	Ala	Phe	Ala	Asp	Ala	Cys	Ala	Ser	Ser	Ser	Val	Thr	Pro	Lys		
65					70					75					80		
Met	Leu	Val	Asn	Phe	Leu	Ser	Lys	Asp	His	Arg	Thr	Phe	Leu	Val	Glu		
			85						90					95			

Cys	Phe	Thr	Gln	Phe	Tyr	Phe	Phe	Gly	Ser	Ser	Ala	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Pro	Val	Met	Met	Ser	Asn	Ser	Leu	Cys	Met	Lys	Phe
	130					135					140				
Ile	His	Val	Ser	Tyr	Ile	Val	Gly	Phe	Leu	His	Ser	Ala	Ile	His	Val
145					150					155					160
Gly	Leu	Leu	Val	Arg	Leu	Asn	Phe	Cys	Lys	Ser	Asn	Ile	Ile	His	Tyr
			165						170					175	
Phe	Tyr	Cys	Glu	Ile	Leu	Gln	Leu	Phe	Lys	Ile	Ser	Cys	Thr	Asp	Pro
		180						185					190		
Thr	Met	Asn	Val	Leu	Leu	Val	Leu	Ile	Phe	Ser	Ala	Leu	Ile	Gln	Gly
		195					200					205			
Leu	Thr	Phe	Met	Thr	Ile	Ile	Val	Ser	Tyr	Phe	Ser	Val	Leu	Leu	Ala
	210					215					220				
Ile	Leu	Lys	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Leu	Met	Tyr	Val	Arg	Pro	Gly	Ser	Gly	Ser	Gly	Glu	Asp	Lys	Asp	Arg
		260						265				270			
Met	Tyr	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Pro	Phe	Leu	Asn	Pro	Phe	
		275					280				285				
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Ala	Ala	Leu	Arg	Arg	Lys
	290					295					300				
Met	Lys														
305															

<210> 2299

<211> 236

<212> PRT

<213> Mus musculus

<400> 2299

Ser	Ser	Thr	Val	Thr	Pro	Lys	Met	Leu	Gln	Asp	Ile	Phe	Ser	Lys	Ser
1				5					10					15	
Lys	Leu	Ile	Ser	Phe	Ser	Glu	Cys	Met	Ile	Gln	Phe	Phe	Ser	Phe	Val
			20					25					30		
Val	Ser	Thr	Thr	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp
		35					40					45			
Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr
	50					55					60				
Asn	Arg	Leu	Cys	Val	Arg	Leu	Leu	Thr	Leu	Ser	Phe	Leu	Gly	Gly	Phe
65					70					75					80
Ile	His	Ala	Leu	Ile	His	Glu	Gly	Phe	Leu	Phe	Arg	Leu	Ile	Phe	Cys
			85						90				95		
Arg	Ser	His	Ile	Ile	Asn	His	Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu
			100					105					110		
Lys	Ile	Ser	Cys	Asn	Asp	Pro	Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile
		115					120					125			
Phe	Ser	Gly	Ser	Ile	Gln	Val	Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser
	130					135					140				
Tyr	Thr	Leu	Val	Leu	Phe	Ser	Ile	Leu	Lys	Lys	Lys	Ser	Leu	Lys	Ser
145					150					155					160
Ile	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser
			165						170					175	
Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro



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<210> 2300
<211> 306
<212> PRT
<213> Mus musculus
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$$\begin{array}{ll} \langle 210 \rangle & 2301 \\ \langle 211 \rangle & 161 \end{array}$$

<212> PRT

<213> Mus musculus

<400> 2301

Phe	Leu	Gly	Gly	Phe	Ile	His	Ala	Leu	Ile	His	Glu	Ser	Phe	Leu	Phe
1				5					10					15	
Arg	Leu	Ile	Phe	Cys	Ser	Ser	His	Ile	Ile	His	His	Phe	Tyr	Cys	Asp
			20					25					30		
Val	Ile	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Asn	Asp	Pro	Ser	Ile	Asn	Tyr
		35					40					45			
Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val	Phe	Thr	Ile	Thr
	50					55					60				
Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser	Ile	Leu	Lys	Lys
65					70					75					80
Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His
				85					90					95	
Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Phe	Met	Tyr	Val
			100					105					110		
Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met	Met	Asp	Ser	Val
		115					120					125			
Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu
	130					135					140				
Arg	Asn	Lys	Gln	Val	Lys	Lys	Ser	Leu	Ala	Lys	Phe	Leu	Arg	Arg	Asn
145					150					155					160
Thr															

<210> 2302

<211> 141

<212> PRT

<213> Mus musculus

<400> 2302

Phe	Cys	Arg	Ser	His	Val	Ile	Lys	His	Phe	Phe	Cys	Asp	Val	Pro	Pro
1				5					10					15	
Leu	Tyr	Arg	Leu	Ser	Cys	Val	Asp	Pro	Tyr	Ile	Asn	Glu	Leu	Met	Ile
			20					25					30		
Leu	Ile	Val	Ala	Gly	Ser	Val	Gln	Thr	Phe	Ser	Ile	Ile	Ile	Val	Leu
		35					40					45			
Ile	Ser	Tyr	Phe	Cys	Ile	Leu	Tyr	Thr	Ile	Phe	Thr	Met	Lys	Ser	Arg
	50					55					60				
Glu	Gly	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Phe	Leu	Ser
65					70					75					80
Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Leu	Tyr	Thr	Tyr	Ile	Arg	Pro	Ser
				85					90					95	
Ser	Ile	Lys	Gly	Gly	Asp	Glu	Ala	Ile	Pro	Val	Ala	Ile	Phe	Tyr	Thr
			100					105					110		
Leu	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys
		115					120						125		
Glu	Val	Ile	Asn	Val	Ile	Lys	Lys	Thr	Ile	Asn	Lys	Gly			
	130					135					140				

<210> 2303

<211> 133

<212> PRT

<213> Mus musculus

<400> 2303

Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu	Ser	Ile	Ser	Cys	Asn	Asp	Pro
1				5					10					15	
Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
		20						25					30		
Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser
		35					40					45			
Ile	Leu	Lys	Gln	Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr
	50					55					60				
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
65					70					75					80
Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met
				85					90					95	
Met	Asp	Ser	Val	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile
			100					105					110		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Lys	Lys	Ser	Leu	Ala	Lys	Phe
		115					120					125			
Leu	Arg	Arg	Asn	Thr											
															130

<210> 2304

<211> 307

<212> PRT

<213> Mus musculus

<400> 2304

Met	Glu	Asn	Asp	Ser	Phe	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr
1				5					10					15	
Asp	His	Pro	Glu	Leu	Gln	Leu	Ser	Leu	Phe	Val	Leu	Phe	Leu	Met	Asn
			20					25					30		
Tyr	Thr	Ala	Ile	Val	Met	Gly	Asn	Leu	Ser	Leu	Met	Ile	Leu	Ile	Phe
		35					40					45			
Leu	Asn	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Phe	Asn	Leu
	50					55					60				
Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Phe	Thr	Pro	Lys	Met	Leu
65					70					75					80
Met	Ser	Phe	Phe	Leu	Glu	Lys	Asn	Thr	Ile	Tyr	Phe	Arg	Gly	Cys	Met
				85					90					95	
Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Asn	Ser	Glu	Ser	Tyr	Val
			100					105					110		
Leu	Thr	Ala	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Leu	Tyr	Lys	Thr	Ile	Met	Val	Pro	Arg	Ile	Cys	Cys	Leu	Leu	Met	Phe
	130					135					140				
Val	Tyr	Leu	Ile	Gly	Phe	Thr	Ser	Ala	Met	Ile	Leu	Thr	Gly	Leu	Met
145					150					155					160
Phe	Arg	Leu	Asn	Phe	Cys	Asn	Asn	His	Ile	Ile	Asn	His	Tyr	Met	Cys
				165					170					175	
Asp	Ile	Phe	Pro	Val	Ile	Gln	Ile	Ser	Cys	Ser	Asp	Thr	Tyr	Leu	Asn
			180					185					190		
Glu	Leu	Val	Ser	Thr	Ala	Val	Val	Gly	Thr	Gly	Ile	Ile	Leu	Cys	Ser
		195					200					205			
Leu	Leu	Ile	Leu	Met	Ser	Tyr	Ala	Leu	Ile	Leu	Phe	Asn	Ile	Leu	Asn
	210					215					220				
Met	Ser	Ser	Gly	Lys	Gly	Trp	Ser	Lys	Ala	Met	Gly	Thr	Cys	Gly	Ser
225					230					235					240
His	Ile	Ile	Thr	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Gly	Leu	Leu	Ala	Tyr
				245					250					255	

Val	Lys	Pro	Ser	Ser	Ala	Glu	Thr	Val	Gly	Gln	Gly	Lys	Phe	Phe	Ser
			260					265					270		
Leu	Phe	Tyr	Thr	Phe	Leu	Val	Pro	Val	Leu	Asn	Pro	Phe	Ile	Tyr	Ser
		275					280					285			
Pro	Gln	Asn	Lys	Asp	Val	Lys	Val	Ala	Val	Lys	Lys	Thr	Leu	Lys	Arg
	290					295					300				
Ile	Ser	Asn													
305															

<210> 2305  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2305

Met	Val	Leu	Asp	Asn	Gly	Ser	Tyr	Met	Thr	Glu	Phe	Ile	Leu	Leu	Val
1				5					10					15	
Leu	Asn	Asp	Pro	Asp	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu	Leu
			20					25					30		
Ile	Tyr	Thr	Thr	Thr	Thr	Leu	Gly	Asn	Leu	Ala	Leu	Ile	Thr	Leu	Ile
		35					40					45			
Ala	Leu	Asn	Ser	Leu	Leu	His	Ser	Pro	Thr	Tyr	Cys	Ser	Pro	Leu	Asn
	50					55					60				
Leu	Ser	Leu	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys	Met
65					70					75					80
Leu	Met	Asn	Phe	Leu	Val	Arg	Lys	Asn	Ile	Ile	Ser	Tyr	Met	Glu	Cys
				85					90					95	
Leu	Pro	Ser	Ser	Leu	Leu	Phe	Val	Phe	Cys	Phe	Ser	Ala	Ile	Cys	Glu
			100					105					110		
Cys	Cys	Val	Leu	Ile	Ser	Met	Ala	Tyr	Asp	Asn	Tyr	Met	Ala	Val	Cys
		115					120					125			
Asn	Pro	Val	Leu	Tyr	Asn	Ile	Thr	Ile	Ser	Pro	Lys	Val	Cys	Ser	Tyr
	130					135					140				
Leu	Met	Leu	Gly	Ser	His	Ile	Met	Arg	Phe	Ser	Gly	Ala	Met	Ile	His
145					150					155					160
Thr	Gly	Ser	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Asp	Arg	Ser	Ile	Ile	Lys
			165						170					175	
His	Tyr	Phe	Cys	Glu	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser
		180						185					190		
Ile	Tyr	Ala	Asn	Glu	Ile	Glu	Ile	Leu	Ile	Ile	Asp	Ser	Lys	Asp	Ile
		195					200					205			
Ile	Val	Ser	Ser	Val	Ile	Ile	Phe	Thr	Ser	Tyr	Gly	Phe	Ile	Leu	Ser
	210					215					220				
Asn	Ile	Leu	Gln	Met	Arg	Ser	Thr	Ala	Gly	Met	Ser	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ile	Ser	His	Ile	Leu	Thr	Phe	Ser	Leu	Phe	Phe	Gly	Ser	Cys
				245					250					255	
Ala	Leu	Met	Tyr	Leu	His	Pro	Ser	Ser	Pro	Gly	Ser	Met	Asp	Gln	Gly
			260					265					270		
Lys	Val	Ser	Ser	Val	Phe	Tyr	Ile	Ile	Val	Val	Pro	Met	Met	Asn	Pro
		275					280					285			
Leu	Ile	Phe	Ser	Phe	Arg	Asn	Lys	Asp	Ile	Lys	Ile	Ala	Leu	Arg	Lys
	290					295					300				
Val	Leu	Ser	Lys	Lys	Arg	Phe	Leu								
305					310										

<210> 2306

<211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2306

Met	Ala	Ser	Gly	Asn	Asp	Ser	Thr	Thr	Val	Lys	Glu	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Phe	Phe	Phe	Leu	Phe
			20					25					30		
Leu	Gly	Ile	Tyr	Val	Val	Ser	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val
		35					40					45			
Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu
		50				55					60				
Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro
65					70				75						80
Lys	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu
				85					90					95	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys
			100					105					110		
Cys	Ile	Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Phe	Met	Met
		130				135					140				
Thr	Val	Ser	Val	Tyr	Met	Met	Gly	Phe	Val	Gly	Ala	Ile	Ala	His	Thr
145					150					155					160
Ile	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His
				165					170					175	
Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Asn	Thr
			180					185					190		
Ser	Val	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile
		195					200					205			
Gly	Pro	Thr	Leu	Ile	Ile	Phe	Thr	Ser	Tyr	Thr	Leu	Ile	Ile	Phe	Asn
		210				215					220				
Ile	Ser	His	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Ile	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Ile	Phe	Phe	Gly	Ala	Ser	Ala
			245						250				255		
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Pro	Val	Gly	Ser	Val	Gly	Glu	Asp	Lys
			260					265					270		
Val	Ser	Thr	Val	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu	His	Lys	Thr
		290				295					300				
Leu	Lys	Lys	Ser	Met	Leu	Ile									
305					310										

<210> 2307  
 <211> 235  
 <212> PRT  
 <213> Mus musculus

<400> 2307

Met	Asp	Ser	Phe	Asn	Ala	Thr	Leu	Glu	Glu	Arg	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Phe	Leu	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Phe	Val	Phe	Ile	Ser
			20					25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Ile	Phe	Gly	Asn	Thr	Ala	Ile	Ile	Ala	Leu
		35					40					45			

Ser	Gln	Met	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
50						55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ile	Asn	Leu	His	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
				85					90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Ser	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	His	Pro	Leu	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Leu	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Ile	Ile	Leu	Val	Phe
		195					200					205			
Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser	Tyr	Gly	His	Ile	Ala	Lys	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly	Arg	Arg	Lys					
225					230					235					

<210> 2308

<211> 311

<212> PRT

<213> Mus musculus

<400> 2308

Met	Gln	Asn	Gln	Ser	Ile	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Lys	Val	Glu	Lys	Ile	Leu	Ser	Val	Leu	Phe	Phe	Leu	Val
			20					25					30		
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Ile	Ile	Ile	Val	Val	Thr	Ile	Val
		35				40						45			
Phe	Ser	Pro	Ala	Leu	Ser	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Phe
	50					55				60					
Leu	Ser	Phe	Leu	Asp	Ala	Cys	Val	Ser	Ser	Val	Ile	Thr	Pro	Lys	Met
65				70						75					80
Ile	Val	Asp	Phe	Phe	Tyr	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Cys	Cys
				85					90					95	
Met	Ile	Gln	Leu	Phe	Ala	Val	His	Phe	Phe	Thr	Gly	Val	Glu	Val	Ile
			100					105					110		
Val	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Gln	Arg	Leu	Cys	Gly	Ile	Leu	Val
	130					135					140				
Gly	Ile	Ala	Trp	Ala	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe
				165					170					175	
Val	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asn	Thr	His
			180					185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile
		195					200					205			
Ile	Phe	Ser	Ile	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu

210		215		220
Arg Asn His Ser Ser Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly				
225		230		235
Ser His Ile Thr Gly Val Leu Leu Phe Phe Val Pro Cys Ile Leu Ile				240
	245		250	
Tyr Ala Arg Asn Asn Ser Glu Phe Ser Phe Glu Lys Asn Val Phe Ile				255
	260		265	
Phe Asp Asp Val Leu Thr Pro Met Leu Asn Pro Leu Ala Tyr Thr Phe				270
	275		280	
Arg Asn Lys Glu Met Lys Asn Ala Ile Lys Lys Met Trp Arg Arg Leu				285
	290		295	
Phe Asn Ile Ser Asp Lys His			300	
305		310		

<210> 2309

<211> 264

<212> PRT

<213> Mus musculus

<400> 2309

Met Asn Ser Ile Tyr Phe Asn Ile Leu Leu Glu Ile Met Gln Asn Gln				
1	5	10	15	
Ser Phe Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Gln Asn Pro Lys				
	20	25	30	
Val Gln Lys Ile Val Phe Ile Val Phe Leu Phe Val Tyr Ile Ala Thr				
	35	40	45	
Val Gly Gly Asn Met Ile Ile Val Val Thr Ile Val Cys Ser Pro Ala				
	50	55	60	
Leu Ile Asp Cys Pro Met Tyr Phe Phe Leu Ala Phe Leu Ser Leu Leu				
65	70	75	80	
Asp Ala Cys Phe Ser Ser Val Ile Thr Pro Lys Met Val Val Asp Ser				
	85	90	95	
Leu Tyr Glu Lys Lys Thr Ile Ser Phe Glu Gly Cys Met Met Gln Leu				
	100	105	110	
Phe Ala Glu His Phe Leu Ala Ala Val Glu Val Ile Val Leu Thr Ala				
	115	120	125	
Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Ser				
	130	135	140	
Ser Ile Met Asn Trp Arg Leu Cys Gly Thr Leu Met Gly Ile Ala Trp				
145	150	155	160	
Thr Gly Gly Phe Leu His Ser Ile Ile Gln Ile Ile Phe Thr Leu Gln				
	165	170	175	
Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met Cys Asp Leu				
	180	185	190	
Phe Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr His Ile Phe Gly Leu				
	195	200	205	
Leu Val Val Ala Asn Ser Gly Ser Ile Cys Ile Ile Ile Phe Ser Ile				
	210	215	220	
Leu Leu Val Ser Tyr Gly Val Ile Leu Phe Ser Leu Lys Asp His Ser				
225	230	235	240	
Ser Glu Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly Ser His Ile Ala				
	245	250	255	
Val Val Val Leu Phe Phe Val Pro				
	260			

<210> 2310

<211> 344

<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (124)...(301)  
<223> Any amino acid

<400> 2310  
Met Trp Ile His Leu Glu Phe Met Glu Asn His Lys Asn Val Thr Glu  
1 5 10 15  
Phe Ile Phe Met Gly Leu Trp Glu Asn Arg Gln Ile Glu Leu Leu Phe  
20 25 30  
Phe Leu Leu Phe Leu Leu Cys Tyr Leu Ala Val Leu Met Gly Asn Ser  
35 40 45  
Val Ile Leu Leu Thr Ile Thr Cys Ser His Leu Ile Glu Gln Pro Met  
50 55 60  
Tyr Tyr Phe Leu Cys His Leu Ser Leu Met Asp Leu Cys Tyr Thr Ser  
65 70 75 80  
Thr Val Ile Pro Arg Leu Ile Arg Asp Leu Ala Ala Thr Arg Lys Asn  
85 90 95  
Ile Ser Tyr Asn Glu Cys Met Thr Gln Leu Phe Thr Ala His Leu Leu  
100 105 110  
Ala Gly Val Glu Ile Phe Ile Leu Val Ser Arg Xaa Xaa Xaa Xaa Xaa  
115 120 125  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
130 135 140  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
145 150 155 160  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
165 170 175  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
180 185 190  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
195 200 205  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
210 215 220  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
225 230 235 240  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe  
245 250 255  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
260 265 270  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
275 280 285  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Tyr Thr  
290 295 300  
Val Ile Ala Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Ser  
305 310 315 320  
Glu Met Lys Ser Ala Met His Lys Val Trp Ser Arg Leu Ser Leu Arg  
325 330 335  
Val Glu Val Ser Glu Arg Ile Leu  
340

<210> 2311  
<211> 157  
<212> PRT  
<213> Mus musculus



<400> 2311

Ser	Ile	Ile	Gln	Ile	Ile	Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro
1				5					10					15	
Asn	Val	Ile	Asp	His	Phe	Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu
			20					25					30		
Ala	Cys	Thr	Asn	Thr	Tyr	Val	Tyr	Gly	Leu	Leu	Val	Phe	Ala	Asn	Ser
		35					40					45			
Gly	Ser	Ile	Cys	Ile	Ile	Ile	Phe	Ser	Met	Leu	Leu	Ile	Ser	Tyr	Gly
	50				55						60				
Val	Ile	Leu	Phe	Ser	Leu	Arg	Ser	His	Ser	Ser	Glu	Gly	Arg	Trp	Lys
65					70					75					80
Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala	Val	Val	Val	Ser	Phe	Phe
				85					90					95	
Val	Pro	Cys	Ile	Phe	Ile	Tyr	Ala	Arg	Ser	Thr	Ser	Ala	Ser	Ser	Phe
			100					105					110		
Glu	Lys	Lys	Val	Ala	Val	Phe	Asp	Gly	Ile	Met	Thr	Pro	Leu	Leu	Asn
		115					120					125			
Pro	Leu	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg
	130					135					140				
Lys	Met	Trp	Asn	Arg	Phe	Arg	Met	Val	Ser	Asp	Lys	Phe			
145					150					155					

<210> 2312

<211> 310

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (153)...(226)

<223> Any amino acid

<400> 2312

Met	Gly	Gln	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Thr
1				5					10					15	
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Ser	Leu	Met
			20					25					30		
Tyr	Ile	Ala	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile
		35				40						45			
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu
	50				55						60				
Ser	Leu	Met	Asp	Ala	Val	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Ile
65					70					75					80
Val	Asp	Leu	Leu	Arg	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Ile
				85					90					95	
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile
			100					105					110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Leu	Ile	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Leu	Leu	Val
	130				135						140				
Met	Ala	Trp	Ala	Gly	Gly	Phe	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150				155						160
Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165					170					175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180					185					190		

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195						200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		210						215					220			
Xaa	Xaa	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Thr	Val	Val	Phe	Leu	Phe	
225					230						235				240	
Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr	Val	Arg	Pro	Val	Ser	Ser	Phe	Pro	
				245					250					255		
Ile	Asp	Lys	Ser	Ile	Thr	Val	Ile	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	
			260					265					270			
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Ile	Ser	Met	
		275					280					285				
Glu	Lys	Leu	Leu	Gln	Lys	Thr	Leu	Ser	Pro	Cys	Arg	Ile	Arg	Leu	Ser	
	290					295					300					
Ser	Cys	Cys	Leu	Cys	Tyr											
305					310											

<210> 2313  
 <211> 120  
 <212> PRT  
 <213> Mus musculus

Met	Gly	Gln	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Thr	
1				5					10					15		
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Ala	Leu	Ser	Val	Met	Phe	Ser	Leu	Ile	
			20					25					30			
Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile	
		35				40						45				
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu	
		50				55					60					
Ser	Leu	Met	Asp	Ala	Ile	Tyr	Ser	Thr	Ala	Ile	Thr	Pro	Lys	Leu	Ile	
65					70					75					80	
Val	Asp	Leu	Leu	Cys	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Ile	
				85					90					95		
Ser	Gln	Leu	Phe	Ile	Asp	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile	
			100					105					110			
Leu	Leu	Ala	Met	Ala	Leu	Asp	Arg									
		115					120									

<210> 2314  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

Met	Glu	Arg	Val	Asn	Gln	Ser	Val	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly	
1				5					10					15		
Leu	Thr	Asn	Ser	Trp	Ser	Ile	Gln	Leu	Phe	Leu	Phe	Val	Phe	Ser	Ser	
			20					25					30			
Thr	Phe	Tyr	Val	Ala	Ser	Met	Met	Gly	Asn	Ser	Leu	Ile	Val	Phe	Thr	
		35				40						45				
Val	Ala	Ser	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	
		50				55					60					
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Gly	Val	Ser	Ser	Val	Thr	Ser	Pro	Lys	
65					70					75					80	
Met	Ile	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Phe	Thr	Gly	

				85					90					95			
Cys	Val	Thr	Gln	Ile	Phe	Phe	Ile	His	Val	Ile	Gly	Gly	Val	Glu	Met		
			100					105					110				
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys		
		115					120					125					
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Met	Cys	Ile	Leu	Phe		
	130					135					140						
Ser	Val	Thr	Ala	Trp	Val	Val	Gly	Leu	Met	His	Ser	Leu	Ile	Gln	Leu		
145				150					155					160			
Ala	Phe	Val	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Ser		
			165					170					175				
Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asn	Thr		
		180					185						190				
Tyr	Gln	Leu	Glu	Leu	Met	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Val		
	195					200						205					
Gly	Ser	Phe	Phe	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Ile	Ile	Thr		
	210			215							220						
Val	Gln	Lys	His	Ser	Ser	Ser	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu		
225				230				235						240			
Ser	Ala	His	Ile	Ser	Val	Val	Phe	Leu	Phe	Phe	Gly	Pro	Leu	Ile	Phe		
			245				250						255				
Phe	Tyr	Thr	Trp	Pro	Ser	Pro	Ser	Thr	His	Leu	Asp	Lys	Phe	Leu	Ala		
		260					265						270				
Ile	Phe	Asp	Ala	Val	Ile	Thr	Pro	Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Thr		
	275					280					285						
Phe	Arg	Asn	Gln	Glu	Met	Lys	Val	Ala	Met	Lys	Arg	Val	Cys	Arg	Gln		
	290				295						300						
Leu	Val	Ser	Tyr	Arg	Lys	Ala	Ser										
305					310												

<210> 2315

<211> 320

<212> PRT

<213> Mus musculus

<400> 2315

Met	Asp	Gly	Gly	Asn	His	Ser	Met	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly		
1				5				10						15			
Leu	Thr	Asn	Ser	Trp	Arg	Ile	Gln	Ile	Leu	Leu	Phe	Leu	Phe	Phe	Thr		
		20					25						30				
Val	Phe	Tyr	Val	Ala	Ser	Met	Leu	Gly	Asn	Leu	Leu	Ile	Val	Leu	Thr		
	35					40						45					
Ile	Ile	Ser	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala		
	50				55					60							
Asn	Leu	Ser	Phe	Ile	Asp	Thr	Gly	Val	Ser	Ser	Ile	Ala	Thr	Pro	Lys		
65				70					75					80			
Met	Ile	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Leu	Asn	Gly		
			85					90					95				
Cys	Ile	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Val	Gly	Gly	Thr	Glu	Met		
		100					105						110				
Val	Leu	Leu	Ile	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys		
	115					120					125						
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Leu	Arg	Met	Cys	Ile	Val	Leu		
	130				135					140							
Leu	Ala	Leu	Ala	Trp	Ile	Ile	Gly	Leu	Ile	His	Ser	Val	Ala	Gln	Leu		
145				150					155					160			
Ala	Phe	Val	Val	Asn	Leu	Pro	Phe	Cys	Gly	Ala	Asn	Lys	Met	Asp	Ser		
			165					170					175				

Phe	Tyr	Cys	Asp	Phe	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Tyr	Arg	Leu	Glu	Phe	Leu	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Met
		195					200					205			
Ala	Thr	Phe	Phe	Ile	Leu	Ile	Val	Ser	Tyr	Ile	Phe	Ile	Leu	Val	Thr
	210					215					220				
Val	Arg	Lys	His	Ser	Ser	Gly	Ala	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Ile	Thr	Val	Val	Val	Phe	Phe	Phe	Gly	Pro	Cys	Ile	Ile
			245					250						255	
Val	Tyr	Val	Trp	Pro	Phe	Pro	Thr	Leu	Pro	Ile	Asp	Lys	Phe	Leu	Ala
		260						265					270		
Ile	Phe	Asp	Val	Ile	Ile	Thr	Pro	Phe	Met	Asn	Pro	Leu	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Asn	Glu	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Phe	Ile	Arg
	290					295					300				
Ala	Leu	His	Phe	Lys	Asn	Phe	Phe	Ile	Ser	Ser	Leu	Arg	Asp	Leu	Ser
305					310					315					320

<210> 2316

<211> 294

<212> PRT

<213> Mus musculus

<220>

<221> CONFLICT

<222> (59)...(107)

<223> Any amino acid

<400> 2316

Met	Asp	Gly	Glu	Asn	His	Thr	Val	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Leu	Thr	His	Ser	Trp	Glu	Ile	Gln	Leu	Leu	Leu	Leu	Val	Leu	Ser	Ser
			20					25				30			
Val	Leu	Tyr	Ile	Leu	Ser	Met	Ala	Gly	Asn	Ile	Leu	Ile	Val	Phe	Ser
	35					40					45				
Val	Thr	Ile	Asp	Pro	His	Leu	His	Ser	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55				60					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65				70					75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			85					90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Cys	Lys	Pro	Leu
			100					105				110			
His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Val	Cys	Val	Leu	Phe	Leu	Gly
	115						120					125			
Ala	Ala	Trp	Gly	Leu	Gly	Ile	Ser	His	Ser	Leu	Phe	Gln	Leu	Ala	Phe
	130					135					140				
Leu	Ile	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Ser	Phe	Tyr
145					150					155					160
Cys	Asp	Leu	Pro	Arg	Leu	Leu	Arg	Leu	Ala	Cys	Lys	Asp	Thr	Tyr	Lys
			165						170					175	
Leu	Gln	Phe	Met	Val	Thr	Ile	Asn	Ser	Gly	Phe	Ile	Cys	Val	Gly	Ser
			180					185					190		
Phe	Leu	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Ser	Val	Trp
	195						200					205			
Lys	His	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala
	210					215					220				



<210> 2318  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2318  
 Met Glu Arg Leu Thr Ala Glu Glu Thr Arg Asn Gly Thr Trp Val Gln  
 1 5 10 15  
 Glu Phe Val Leu Glu Gly Phe Pro Val Ala Glu His Leu Arg Ile Leu  
 20 25 30  
 Phe Phe Leu Met His Leu Leu Ala Tyr Leu Ala Ser Leu Met Gly Asn  
 35 40 45  
 Thr Leu Ile Ile Ser Ile Thr Cys Leu Asp His Arg Leu Gln Thr Pro  
 50 55 60  
 Met Tyr Phe Phe Leu Ser Thr Phe Ser Phe Val Glu Cys Cys Phe Ile  
 65 70 75 80  
 Thr Thr Val Ile Pro Gln Leu Leu Ala Ile Phe Leu Ser Gly Arg Gln  
 85 90 95  
 Thr Ile Ser Phe Val Ala Cys Phe Thr Gln Ala Phe Phe Phe Leu Phe  
 100 105 110  
 Leu Gly Ala Thr Val Phe Tyr Leu Leu Ala Val Leu Ser Leu Asp Arg  
 115 120 125  
 Tyr Leu Ala Ile Cys Lys Pro Leu His Tyr Pro Thr Ile Met Ser Pro  
 130 135 140  
 Arg Met Cys Phe Leu Leu Val Thr Val Cys Leu Ala Leu Gly Phe Leu  
 145 150 155 160  
 Phe Met Ala Gly Pro Val Val Met Leu Ser Gln Ser Ser Tyr Cys Gly  
 165 170 175  
 Pro Asn Val Ile Pro His Phe Phe Cys Asp Phe Gly Pro Leu Ala Asn  
 180 185 190  
 Leu Ser Cys Leu Asp Thr Arg Ser Val Glu Met Leu Phe Phe Asn Leu  
 195 200 205  
 Ala Leu Ile Val Leu Phe Gly Ser Leu Leu Val Ala Ile Phe Ala Tyr  
 210 215 220  
 Ser Asn Ile Val Val Thr Ile Val Gly Leu Pro Ser Ala Arg Glu Gln  
 225 230 235 240  
 Gln Arg Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val Leu Ser Leu  
 245 250 255  
 Met Tyr Gly Ser Cys Val Phe Ile Tyr Met Lys Pro Lys Gln Thr Ser  
 260 265 270  
 Arg Leu Asp Thr Asn Arg Glu Ala Ala Leu Val Asn Thr Val Val Thr  
 275 280 285  
 Pro Leu Leu Asn Pro Val Ile Tyr Thr Leu Arg Asn Lys Gln Val His  
 290 295 300  
 Gln Ala Leu Arg Asp Ala Leu Ser Arg Val Lys Leu Pro Arg Phe Gln  
 305 310 315 320  
 Arg Ser Asn Ala Pro Ser Leu  
 325

<210> 2319  
 <211> 69  
 <212> PRT  
 <213> Mus musculus

<400> 2319



<210> 2321  
 <211> 288  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (117)...(124)  
 <223> Any amino acid

<221> VARIANT  
 <222> (126)...(134)  
 <223> Any amino acid

<400> 2321  
 Met Arg Glu Asn Met Thr Trp Val Ser Glu Phe Ile Leu Met Gly Leu  
 1 5 10 15  
 Thr Ser Asp Lys Asn Ile Gln Ala Gly Leu Phe Val Leu Phe Gly Val  
 20 25 30  
 Thr Tyr Leu Leu Thr Leu Leu Gly Asn Gly Leu Ile Val Leu Leu Ile  
 35 40 45  
 Ala Leu Asp Pro Arg Leu His Leu Pro Met Tyr Phe Phe Leu Cys His  
 50 55 60  
 Leu Ser Val Val Asp Ile Cys Tyr Thr Ser Ser Gly Val Pro Gln Met  
 65 70 75 80  
 Leu Ala His Phe Leu Met Glu Lys Lys Thr Ile Ser Phe Ala Leu Cys  
 85 90 95  
 Gly Thr Gln Leu Phe Phe Ala Leu Thr Leu Gly Gly Thr Glu Phe Leu  
 100 105 110  
 Leu Leu Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Xaa Xaa  
 115 120 125  
 Xaa Xaa Xaa Xaa Xaa Xaa Thr Ala Val Thr Met Cys Leu Pro Thr Cys  
 130 135 140  
 Gly His Asn Val Leu Asn His Val Ala Cys Glu Thr Leu Thr Leu Val  
 145 150 155 160  
 Arg Leu Ala Cys Val Asp Ile Thr Leu Asn Gln Val Val Ile Leu Ala  
 165 170 175  
 Ser Ser Val Val Val Leu Met Ile Pro Cys Ser Leu Val Ser Leu Ser  
 180 185 190  
 Tyr Ala His Ile Val Ala Ala Ile Met Lys Ile His Ser Thr Gln Gly  
 195 200 205  
 Arg Arg Lys Ala Phe Glu Thr Cys Ala Ser His Leu Thr Val Val Ser  
 210 215 220  
 Met Ser Tyr Gly Met Ala Leu Phe Thr Tyr Leu Gln Pro Ala Ser Thr  
 225 230 235 240  
 Ala Ser Ala Glu Gln Asp Lys Val Val Val Ile Phe Tyr Ala Leu Val  
 245 250 255  
 Thr Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val  
 260 265 270  
 Lys Ala Ala Phe Arg Arg Val Leu Met Lys Asn Ile Glu Ser Lys Asn  
 275 280 285

<210> 2322  
 <211> 297  
 <212> PRT  
 <213> Mus musculus



<220>  
 <221> VARIANT  
 <222> (105)...(111)  
 <223> Any amino acid

<400> 2322

Met	Gly	Lys	Asp	Asn	Gln	Thr	Trp	Ile	His	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Asp	Trp	Asn	Thr	Glu	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Val	Ser	Tyr	Ala	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ala	His	Phe	Leu	Ala	Thr	His	Lys	Thr	Ile	Pro	Phe	Leu	Ser
				85					90					95	
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Tyr
			100					105					110		
Ser	Ala	Ile	Met	His	Thr	Gly	Leu	Cys	Ser	Arg	Met	Ala	Ile	Val	Ser
		115					120					125			
Trp	Val	Gly	Gly	Ser	Ile	Asn	Ser	Val	Met	Gln	Thr	Ala	Ile	Thr	Phe
	130					135					140				
Gln	Leu	Pro	Met	Cys	Thr	Asn	Val	Tyr	Ile	Asp	His	Ile	Ser	Cys	Glu
145					150					155					160
Leu	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Thr	Ser	Ala	Asn	Glu
				165					170					175	
Val	Ala	Ile	Met	Val	Ser	Ser	Ile	Ile	Leu	Leu	Met	Thr	Pro	Phe	Cys
			180					185					190		
Leu	Val	Leu	Leu	Ser	Tyr	Ile	Gln	Ile	Ile	Ser	Thr	Ile	Leu	Lys	Ile
		195					200					205			
Gln	Ser	Lys	Glu	Gly	Arg	Lys	Lys	Ala	Phe	His	Thr	Cys	Ala	Ser	His
	210					215					220				
Leu	Thr	Val	Val	Ala	Leu	Cys	Tyr	Gly	Met	Ala	Ile	Phe	Thr	Tyr	Ile
225					230					235					240
Gln	Pro	His	Ser	Ser	Pro	Ser	Val	Leu	Gln	Glu	Lys	Leu	Ile	Ser	Leu
				245					250					255	
Phe	Tyr	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr	Ser	Leu
			260					265					270		
Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Trp	Gln	Lys	Leu	Leu	Gly	Gln	Phe
		275					280					285			
Ser	Glu	Phe	Thr	Ser	Lys	Leu	Lys	Thr							
	290					295									

<210> 2323  
 <211> 145  
 <212> PRT  
 <213> Mus musculus

<400> 2323

Met	Val	Met	Ser	Ala	Arg	Asn	Asn	Pro	Asp	Leu	Thr	Pro	Ala	Ser	Phe
1				5					10					15	
Val	Leu	Asn	Gly	Ile	Pro	Gly	Leu	Glu	His	Met	His	Ile	Trp	Ile	Ser
			20					25					30		
Phe	Pro	Phe	Cys	Ser	Met	Tyr	Ala	Val	Ala	Met	Met	Gly	Asn	Cys	Gly
		35					40					45			
Leu	Leu	Tyr	Leu	Ile	Phe	Phe	Glu	Asp	Ser	Leu	His	Arg	Pro	Met	Tyr

50		55		60
Tyr Phe Leu Ala Met Leu Ser Leu Thr Asp Leu Val Met Cys Ser Ser				
65		70		75
Thr Ile Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Glu Ile				80
	85		90	
Gly Phe Asp Asp Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Met				95
	100		105	
Gly Met Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp His Tyr Val				110
	115		120	
Ala Ile Cys Tyr Pro Leu His Tyr Ser Thr Ile Leu Thr Asn Pro Ile				125
	130		135	
Ile			140	
145				

<210> 2324  
 <211> 215  
 <212> PRT  
 <213> Mus musculus

<400> 2324

Leu Lys Lys Asn His Ile Arg Val Thr Lys Pro Ile Leu Leu Gly Phe				
1	5		10	15
Thr Asn Asn Ser Glu Ile Gln Ile Ser Leu Phe Val Phe Phe Leu Ala				
	20		25	30
Ile Tyr Leu Val Ala Leu Leu Gly Asn Phe Leu Ala Phe Thr Ile Asn				
	35		40	45
Arg Val Asp Pro Thr Leu Gln Thr His Lys Tyr Phe Tyr Leu Gln Asn				
	50		55	60
Leu Ser Gln Leu Glu Val Cys Phe Thr Leu Val Met Ile Pro Lys Met				
65	70		75	80
Leu Val Asp Leu Arg Lys Val Ile Ser Phe Trp Gly Cys Gly Ile Arg				
	85		90	95
Val Cys Ser Phe Phe Phe Pro Pro Ser Ile Ser Ser Ser Ser Ala				
	100		105	110
Leu Met Met Ala Leu Pro Phe Ser Val Cys Val Cys Met Cys Val Cys				
	115		120	125
Val Asp Leu Val Thr Asp Ala Ser Ala Cys Ile Leu Phe Ser Ser Ser				
	130		135	140
Cys Phe Thr Phe Ile Ile Val Ser Tyr Val His Ile Ala Gly Thr Thr				
145	150		155	160
Leu Arg Met Ser Phe Ala Thr Asp Gly Gln Lys Ala Phe Phe Ile Cys				
	165		170	175
Leu Leu Tyr Leu Thr Val Ile Tyr Tyr Phe Tyr Val Thr Ala Asn Leu				
	180		185	190
Thr Tyr Arg Thr Ser Ser Asn Ser Ser Glu Ser Ser Ser Leu Ser Tyr				
	195		200	205
Thr Val Phe Met Ser Met Leu				
210	215			

<210> 2325  
 <211> 216  
 <212> PRT  
 <213> Mus musculus

<400> 2325

Ile Lys Ala Lys Ile Glu Glu Glu Asn Thr Thr Glu Ile Thr Gln Phe				
1	5		10	15

Ile	Cys	Leu	Gly	Phe	Ser	Asp	Ser	Pro	Glu	Ile	Thr	Glu	Leu	Leu	Phe
			20					25					30		
Val	Leu	Ile	His	Thr	Trp	Asn	Met	Ser	Phe	Ile	Val	Leu	Ile	Arg	Met
		35					40					45			
Asp	Ser	His	Leu	His	Thr	Pro	Ser	Ile	Ser	Phe	Lys	Glu	Ile	Tyr	Tyr
	50					55					60				
Ile	Ser	Ser	Ala	Ile	Glu	Ser	Met	Leu	Ser	Lys	Phe	Phe	Gln	Glu	Lys
65					70					75					80
Gln	Thr	Ile	Ser	Phe	Val	Gly	Tyr	Met	Val	Tyr	Phe	Ile	Phe	Phe	Thr
				85					90					95	
Arg	Val	Leu	Ser	Glu	Ser	Phe	Leu	Val	Thr	Ala	Met	Ala	Tyr	Asp	Lys
			100					105					110		
Tyr	Ala	Ile	Ile	Cys	Asn	Pro	Thr	Ala	Leu	Ser	Pro	Ile	Met	Leu	Pro
		115					120					125			
Thr	Leu	Cys	Ala	Trp	Val	Met	Val	Glu	Ser	Tyr	Val	Thr	Thr	Asn	Ser
	130					135					140				
Ser	Ser	Leu	Pro	Gln	Ile	Cys	Thr	Leu	Leu	Gln	Leu	Tyr	Phe	Cys	Gly
145					150					155					160
Leu	Asn	Ile	Asn	Arg	Arg	Phe	Phe	Cys	Asp	Met	Pro	Gln	Leu	Leu	Asn
				165					170					175	
Leu	Ser	Tyr	Thr	Asp	Lys	Phe	Phe	Val	Gln	Phe	Leu	Leu	Ala	Ile	Phe
			180					185					190		
Thr	Arg	Leu	Phe	Arg	Ile	Val	Asn	Ala	Leu	Leu	Ile	Ser	Ile	Ala	Tyr
		195					200					205			
Asp	Tyr	Val	Ala	Ile	Ser	Val	Val								
	210					215									

<210> 2326

<211> 315

<212> PRT

<213> Mus musculus

<400> 2326

Met	Glu	Gly	Met	Ala	Ala	Arg	Asn	His	Cys	Val	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Asn	Lys	Gln	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
		20						25					30		
Leu	Phe	Ile	Arg	Phe	Tyr	Val	Val	Thr	Val	Thr	Gly	Asn	Leu	Ser	Ile
		35					40					45			
Ile	Thr	Leu	Ile	Gly	Leu	Asn	Ser	His	Leu	Pro	Thr	Pro	Met	Tyr	Tyr
		50				55					60				
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Met	Pro	Val	Asn	Phe	Met	Val	Glu	Lys	Asn	Ile	Ile	Ile
			85						90					95	
Ser	Tyr	Leu	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Cys	Phe	Leu	Ile	Phe	Gly
			100					105					110		
Ile	Ala	Glu	Gly	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Pro	Phe	Val
		115					120					125			
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Ala	Thr	Met	Ser	Ser	Gln	Ile
		130					135					140			
Tyr	Thr	Ser	Leu	Ile	Phe	Ser	Val	Tyr	Ile	Phe	Ala	Val	Phe	Cys	Ile
145					150					155					160
Ser	Thr	His	Val	Gly	Phe	Met	Phe	Arg	Ile	Lys	Phe	Cys	Lys	Leu	Asp
				165					170					175	
Val	Ile	Asn	His	Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Arg	Ala
			180				185						190		
Cys	Ser	Asp	Thr	Tyr	Ile	Asn	Glu	Met	Leu	Ile	Gln	Tyr	Phe	Gly	Thr



<210> 2328  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2328  
 Pro Leu Leu Tyr Ser Ser Ile Met Ser Gln His Lys Cys Leu Ser Leu  
 1 5 10 15  
 Val Leu Val Val Tyr Ile Ile Gly Ile Ile Cys Ala Ser Ala His Val  
 20 25 30  
 Gly Cys Ile Phe Arg Val Asp Phe Cys Arg Phe Asp Val Ile Asn His  
 35 40 45  
 Cys Phe Cys Asp Leu Ile Ser Ile Leu Lys Leu Ser Cys Ser Asn Ile  
 50 55 60  
 Phe Val Asn Glu Leu Leu Ile Leu Ile Phe Ser Leu Ile Asn Thr Ile  
 65 70 75 80  
 Phe Pro Thr Leu Thr Ile Leu Ile Ser Tyr Thr Phe Ile Ile Ile Ser  
 85 90 95  
 Ile Leu Arg Ile Lys Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr  
 100 105 110  
 Cys Ser Ser Leu Ile Ser Ala Val Phe Phe Gly Ser Ala Ala  
 115 120 125  
 Phe Met Tyr Leu Lys Pro Ser Ser Ser Ser Ser Ile Asn Glu Gly Lys  
 130 135 140  
 Ile Cys Ser Ile Phe Tyr Thr Ile Phe Val Pro Met Leu Asn Pro Leu  
 145 150 155 160  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Asn Ile Ala Val Lys Lys Ile  
 165 170 175  
 Ile Glu Arg Arg Ser Phe Phe  
 180

<210> 2329  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2329  
 Phe Ile Lys Gln Arg Lys Ile Glu Val Gly Asn Cys Ser Thr Thr Glu  
 1 5 10 15  
 Phe Leu Leu Leu Gly Ile Thr Asn Lys Pro Lys Ile Lys Val Ile Leu  
 20 25 30  
 Phe Asn Ser Phe Leu Val Tyr Leu Ile Ile Leu Phe Glu Asn Leu Gly  
 35 40 45  
 Met Ile Ile Leu Ile Arg Met Asn Thr Lys Leu His Thr Leu Met Tyr  
 50 55 60  
 Tyr Phe Leu Ser Gln Leu Ser Phe Ser Asp Ile Ser Tyr Ser Thr Ala  
 65 70 75 80  
 Phe Gly Pro Lys Met Met Asn Ser Leu Gln Leu Pro Cys Ile Cys Ser  
 85 90 95  
 Val Phe Phe Ile Ser Asn Ile Phe Thr Asp Ala Glu Cys Ile Met Leu  
 100 105 110  
 Ala Val Met Thr Leu Asp Arg Tyr Asn Ala Ile Ser Asn Pro Leu Met  
 115 120 125  
 Tyr Ala Ala Asp Met Ser Gln Val Val Cys Ser Arg Leu Leu Ala Val  
 130 135 140  
 Val Tyr Leu Phe Gly Met Val Asp Ala Leu Ile His Thr Ile Leu Thr

145				150				155			160				
Phe	His	Leu	Cys	Phe	Cys	Gly	Phe	Lys	Glu	Ile	Asn	His	Phe	Phe	Cys
				165					170					175	
Asp	Ile	Pro	Pro	Leu	Leu	Ser	Leu	Phe	Ser	Ser	Asp	Ile	Glu	Val	Asn
			180					185					190		
Glu	Leu	Asp	Ile	Phe	Ile	Leu	Cys	Glu	Phe	Thr	Lys	Met	Ser	Thr	Ile
		195					200					205			
Ser	Val	Leu	Val	Phe	Tyr	Cys	Tyr	Ile	Ile	Ser	Leu	Val	Leu	Lys	Ile
	210					215				220					
Cys	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Val	Ser	Thr	Cys	Thr	Ser	His
225					230					235					240
Pro	Thr	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Met	Met	Ser	Ile	Met	Tyr
			245						250					255	
Phe	Gln	Pro	Ser	Ala	Tyr	Ser	Leu	His	Gln	Asp	Lys	Met	Thr	Ser	
		260					265					270			
Leu	Phe	Tyr	Thr	Leu	Val	Ile	Phe	Met	Leu	Asn	Ala	Val	Ile	Tyr	Ser
		275					280					285			
Leu	Arg	Asn	Glu	Asp	Val	Lys	Ala	Ser	Val	Lys	Ser	Leu	Lys	Ser	Arg
	290					295					300				
Ile	Ser	Asp													
305															

<210> 2330  
 <211> 349  
 <212> PRT  
 <213> Mus musculus

<400> 2330

Met	Glu	Met	Glu	Asn	Val	Thr	Leu	Leu	Thr	Val	Phe	Leu	Ile	Glu	His
1				5					10					15	
Gln	Pro	Gln	Trp	Lys	Leu	Pro	Leu	Phe	Leu	Ser	Leu	Phe	Val	Ile	Asn
			20					25					30		
Leu	Ile	Ser	Asn	Ala	Trp	Tyr	Phe	Ser	Leu	Ile	Asn	Phe	Trp	Asp	Asp
		35					40				45				
Thr	His	Phe	His	Ile	Pro	Met	Tyr	Leu	Phe	Leu	Ser	Asn	Ser	Pro	Phe
	50					55					60				
Val	Asn	Ser	Trp	Leu	Pro	Ser	Glu	Leu	Leu	Ile	Thr	Phe	Ser	Leu	Ser
65					70					75					80
Leu	Ser	Val	Ser	Pro	Ser	Val	Ser	Val	Ser	Val	Ser	Leu	Ser	Val	Ser
			85						90					95	
Val	Ser	Pro	Cys	Leu	Phe	Leu	Ser	Leu	Ser	Val	Cys	Leu	Ser	Leu	Ser
			100					105					110		
Leu	Ser	Val	Ser	Leu	Cys	Leu	Ser	Leu	Ser	Leu	Thr	Leu	Ser	Leu	Ser
		115					120					125			
Leu	Cys	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser
	130					135					140				
Val	Ser	Leu	Ser	Pro	Ser	Leu	Arg	Pro	Ile	Cys	Cys	Phe	Pro	Phe	Ser
145					150					155					160
Val	Ser	Val	Lys	Cys	Phe	Phe	Thr	Pro	Arg	Ala	Arg	Asp	Cys	Tyr	Ile
			165						170					175	
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Ile	Ile	Met	Thr	Asn	Ser	Gln
			180					185					190		
Cys	Phe	His	Leu	Glu	Ile	Phe	Ser	Pro	Glu	Gly	Gly	Phe	Leu	His	Val
		195					200					205			
Leu	Thr	Tyr	Glu	Ile	Phe	Leu	Phe	Arg	Ile	Thr	Phe	Cys	Asn	Ser	Asn
	210					215					220				
Val	Ile	Tyr	His	Phe	Tyr	Cys	Asp	Val	Ile	Phe	Phe	Phe	Phe	Phe	Lys
225					230					235					240

Ile	Ser	Cys	Ser	Asp	Ser	Ser	Ile	Ser	Phe	Leu	Leu	Met	Phe	Gly	Leu
				245					250					255	
Ala	Asp	Thr	Gly	Trp	Arg	Ser	Thr	Ile	Val	Ser	Val	Leu	Gly	Phe	Tyr
			260					265					270		
Ile	Ile	Leu	Phe	Thr	Leu	Leu	Leu	Ser	Lys	Cys	Phe	Lys	Gly	Ile	Lys
		275					280					285			
Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Val	Leu	Cys	Ala	Ser	Leu	Tyr
	290					295					300				
Tyr	Gly	Pro	Leu	Phe	Met	Tyr	Val	Arg	Leu	Ala	Ser	Arg	Tyr	Ala	Asp
305					310					315					320
Ala	Glu	Ile	Asp	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Val	Thr	Met	Leu	Asn
				325					330					335	
Ile	Ile	Ile	Tyr	Ser	Ile	Lys	Lys	Gln	Ile	Ile	Asp	Ser			
			340					345							

<210> 2331

<211> 298

<212> PRT

<213> Mus musculus

<400> 2331

Met	Glu	His	Ser	Asn	Asp	Ser	Lys	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5				10					15		
Phe	Ala	Gly	Gln	Asn	Glu	Ser	Trp	His	Ile	Leu	Phe	Ala	Val	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Val	Ala	Thr	Leu	Val	Gly	Asn	Ile	Gly	Met	Ile	Leu	Leu
		35					40					45			
Ile	Lys	Leu	His	Ser	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Tyr	Ala	Ile	Thr	Pro	Ser
65					70					75					80
Asp	Thr	Gly	Ala	Leu	Gln	Asn	Phe	Met	Ser	Thr	Arg	Pro	Ser	Phe	Pro
				85				90						95	
Phe	Thr	Gly	Trp	Thr	Met	Gln	Leu	Tyr	Ile	Tyr	Gly	Ile	Phe	Ile	Asn
			100					105					110		
Ser	Asp	Phe	Ile	Leu	Ala	Ala	Arg	Ala	Val	Asp	Ser	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	His	Cys	Pro	Ile	Ile	Met	Ser	Gln	Arg	Trp	His	Ser
	130					135					140				
Gly	Ala	Ser	Val	Asn	Thr	Gly	Phe	Thr	Phe	Tyr	Asn	Phe	Cys	Arg	Ser
145					150					155					160
Asn	Ala	Ile	Asn	His	Phe	Phe	Cys	Asn	Val	Pro	Pro	Ile	Leu	Thr	Pro
				165					170					175	
Ser	Cys	Ser	Ser	Thr	Asp	Phe	Asn	Ile	Val	Leu	Leu	Thr	Val	Phe	Val
			180					185					190		
Gly	Phe	Asn	Phe	Ile	Phe	Ser	Val	Ser	Val	Val	Ile	Leu	Ser	Tyr	Thr
		195					200					205			
His	Ile	Leu	Ala	Ala	Ile	Leu	Arg	Met	Phe	Ser	Ala	Ala	Gly	Arg	Ile
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Val	Thr	His	Val	Thr	Thr	Ile	Thr	Ile	Leu
225					230					235					240
Phe	Arg	Thr	Val	Cys	Tyr	Met	Tyr	Val	Leu	His	Gly	Ile	Asn	Arg	Ser
				245					250					255	
Gln	Glu	Gln	Lys	Lys	Val	Thr	Tyr	Val	Ser	Tyr	Phe	Ile	Ile	Ile	Pro
			260					265					270		
Met	Leu	Asn	Leu	Leu	Val	Cys	Ser	Val	Arg	Asn	Gln	Asp	Met	Ile	Glu
		275					280					285			
Val	Leu	Arg	His	Ile	Glu	Asn	Lys	Cys	Leu						

290

295

&lt;210&gt; 2332

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2332

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Tyr Asp Arg Tyr Leu Ala Ile Cys Gln Pro Leu Trp Arg Tyr Pro Val
 1          5          10          15
Leu Met Ser Ala Lys Leu Ser Thr Leu Leu Val Ala Gly Ala Trp Val
 20          25          30
Ala Gly Leu Ile His Gly Ala Ile Gln Ala Ile Leu Thr Phe Arg Leu
 35          40          45
Pro Tyr Cys Gly Pro Asn Gln Val Asp Tyr Phe Phe Cys Asp Ile Pro
 50          55          60
Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Val Asn Glu Leu Phe
 65          70          75          80
Thr Phe Val Asp Ile Gly Val Val Val Ala Ser Cys Phe Ser Leu Ile
 85          90          95
Leu Leu Ser Tyr Ile Tyr Ile Ile Arg Ala Ile Leu Arg Ile Arg Thr
100          105          110
Ala Asp Gly Arg Arg Arg Ala Phe Ser Thr Cys Gly Ala His Val Thr
115          120          125
Met Val Thr Val Tyr Tyr Val Pro Cys Ala Phe Thr Tyr Leu Arg Pro
130          135          140
Asp Ser His Gly Ile Leu Asp Gly Ala Ala Ala Leu Phe Pro Thr Ala
145          150          155          160
Ile Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln Glu
165          170          175
Val Lys Leu Ala Leu Arg Arg Met Val Gly Ser Gln Ser Thr Lys Ser
180          185          190
Gly Gly

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&lt;210&gt; 2333

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2333

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Val Asn Ile Ser Leu Val Thr Glu Phe Ile Val Val Gly Ala Glu Gln
 1          5          10          15
Pro Asp Leu Gln Ile Pro Met Phe Phe Gly Phe Leu Ala Met Tyr Pro
 20          25          30
Val Thr Ala Leu Glu Asn Leu Phe Leu Ile Ile Leu Thr Val Leu Asn
 35          40          45
Ser His Val His Thr Thr Met Tyr Phe Phe Leu Phe Asn Leu Ser Phe
 50          55          60
Val Val Leu Cys Tyr Ser Ser Val Phe Thr Pro Gln Met Leu Met Asn
 65          70          75          80
Phe Ile Ile Arg Lys Asn Thr Ile Ser Tyr Met Glu Cys Ile Thr Leu
 85          90          95
Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser
100          105          110
Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Glu Cys Cys Val Leu
115          120          125

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Thr	Ser	Met	Ala	Tyr	Asp	Ser	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Leu
	130					135					140				
Phe	Met	Ser	Pro	Lys	Cys	Leu	Asn	Leu	Ile	Leu	Gly	Ser	Phe	Phe	Ile
145					150					155					160
Ser	Phe	Ser	Asp	Ala	Val	Ala	His	Ser	Thr	Cys	Arg	Leu	Lys	Leu	Thr
				165					170					175	
Phe	Cys	Asp	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Gln	Leu	Cys	Cys	Thr	Ser
			180					185					190		
Thr	Tyr	Val	Asn	Glu	Leu	Val	Ile	Phe	Val	Phe	Leu	Val	Gly	Cys	Ile
		195					200					205			
Asn	Ile	Ile	Val	Pro	Ser	Ser	Thr	Ile	Leu	Ile	Ser	Tyr	Asp	Phe	Ile
	210					215					220				
Leu	Ser	Ser	Met	Phe	Cys	Ile	Lys	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Tyr	Ser	Ser	His	Val	Ile	Ser	Leu	Ser	Leu	Phe	Phe	Asp
				245					250					255	
Ser	Ser	Ala	Phe	Val	Tyr	Phe	Lys	Ser	Ser	Ser	Ala	Gly	Ser	Leu	Gly
			260					265					270		
Glu	Glu	Asn	Ile	Ser	Ser	Val	Phe	Tyr	Ser	Asn	Val	Val	Leu	Ile	Val
		275					280					285			
Asn	Pro	Leu	Leu	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ser	Leu	Arg	Lys	Thr
	290					295					300				
Leu	Thr	Arg	Lys	Asn	Phe										
305					310										

<210> 2334

<211> 320

<212> PRT

<213> Mus musculus

<400> 2334

Ser	Glu	Pro	Asn	Trp	Thr	Val	Pro	Gln	Glu	Phe	Val	Ile	Leu	Gly	Phe
1				5					10					15	
Ser	Gly	Trp	Pro	Gln	Gly	Leu	Arg	Val	Leu	Leu	Phe	Ser	Leu	Leu	Leu
			20					25					30		
Pro	Leu	Tyr	Leu	Ala	Thr	Leu	Ala	Gly	Asn	Leu	Leu	Ile	Leu	Gly	Leu
		35					40					45			
Ala	Leu	Ala	Glu	Pro	Thr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Ser	Leu	Ser	Ala	Val	Glu	Val	Ala	Tyr	Thr	Leu	Val	Leu	Thr	Pro	Arg
65					70					75					80
Met	Leu	Ala	Gly	Phe	Leu	Leu	Pro	Pro	Gly	Gly	Gln	Ala	Val	Ala	Pro
				85					90					95	
Ser	Thr	Cys	Ala	Ala	Gln	Met	Gly	Leu	Phe	Val	Ala	Leu	Gly	Gly	Ser
			100				105						110		
Glu	Cys	Leu	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Leu	Ala	Ile
		115					120					125			
Cys	Arg	Pro	Leu	Tyr	Tyr	Pro	Leu	Met	Thr	Ser	Gly	Leu	Cys	Trp	Ala
	130					135					140				
Leu	Leu	Ala	Cys	Cys	Cys	Leu	Gly	Gly	Ser	Ile	Leu	Ala	Leu	Gly	Leu
145					150					155					160
Thr	Met	Ala	Ile	Phe	Gln	Leu	Pro	Phe	Cys	His	Gly	Gly	Leu	Val	Asn
				165					170					175	
His	Val	Phe	Cys	Asp	Leu	Pro	Ala	Val	Leu	Val	Leu	Ala	Cys	Gly	Asn
			180					185					190		
Arg	Glu	Leu	Gln	Glu	His	Val	Leu	Ala	Ala	Cys	Met	Leu	Leu	Leu	
		195					200				205				
Val	Leu	Pro	Leu	Ile	Leu	Ile	Leu	Leu	Ser	Tyr	Thr	Arg	Val	Leu	Val

210		215		220
Val Ile Leu Gly Val Gly Asp Ser Ala Gly Arg Arg Lys Ala Phe Asn				
225		230		235
Thr Val Ala Ser His Leu Thr Val Ala Val Leu His Tyr Gly Cys Ala				
	245		250	
Thr Ala Met Tyr Ala Arg Pro Leu Ser Ser Arg Ser Leu Glu Glu Asp				
	260		265	
Lys Leu Val Ser Leu Ile Tyr Ile Asn Leu Thr Pro Leu Leu Tyr Pro				
	275		280	
Ala Ile Tyr Thr Leu Arg Asn Arg Asp Met Gln Gly Ala Leu Gln Arg				
	290		295	
Val Val Ser Gln Arg Thr Met Gly Thr Val Gln Gln Ala Asp Leu Val				
305		310		315
				320

<210> 2335  
 <211> 234  
 <212> PRT  
 <213> Mus musculus

<400> 2335
Met Glu Gln Asn Val Ser Tyr Ser Arg Val Lys Glu Phe Val Cys Glu
1 5 10 15
Gly Leu Thr Asp Ser Ser Pro Lys Ser Val Trp Ser Ser Phe Leu Phe
20 25 30
Leu Val Tyr Thr Ala Thr Gly Leu Gly Ser Leu Leu Ile Met Val Thr
35 40 45
Ala Thr Glu Cys Leu Leu His Thr Pro Ile Phe Ser Leu Ser Val Met
50 55 60
Thr Phe Asp Gln Tyr Met Ala Ile Ser Lys Pro Leu Gln Tyr Val Ser
65 70 75 80
Ile Met Ser Ser Arg Arg Cys Gln Ala His Ile Val Ala Ser Trp Val
85 90 95
Gly Asn Phe Val His Ser Ile Val Gln Ile Ser Leu Leu Leu Pro Leu
100 105 110
Pro Phe Phe Gly Pro Asn Val Val Asp Gly Phe Tyr Cys Asp Val Pro
115 120 125
Gln Ala Leu Lys Leu Thr Cys Thr Ser Thr Phe Ala Leu Glu Val Leu
130 135 140
Met Ile Ala Thr Asn Gly Leu Ile Thr Thr Met Trp Phe Val Phe Leu
145 150 155 160
Leu Val Thr Tyr Leu Ala Thr Leu Met Val Ile His Arg Arg Lys Val
165 170 175
Ile Ser Ser Cys Thr Gln Ile Thr Val Val Thr Leu His Phe Val Thr
180 185 190
Cys Ile Tyr Val Phe Thr Ala Leu Pro Met Asp Arg Ala Val Ser Ile
195 200 205
Thr Phe Thr Val Ile Ile Pro Val Leu Asn Pro Met Ile Cys Thr Leu
210 215 220
Met Ser Ser Gly Phe Leu Ser Leu His Lys
225 230

<210> 2336  
 <211> 146  
 <212> PRT  
 <213> Mus musculus

<400> 2336



&lt;210&gt; 2338

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2338

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Lys Pro Pro Ile Lys Thr Phe Arg Lys Lys Ser Asn Gln Ala Lys Arg
 1          5          10          15
Cys Val Leu Phe Ser Glu Phe Pro Asp Phe Gln Trp Phe Leu Ile Gly
 20          25          30
Leu Leu Phe Ile Thr Tyr Ser Phe Ile Leu Leu Gly Asn Asp Thr Ile
 35          40          45
Val Leu Ile Thr Arg Val Val Phe Ser Phe Gly Lys Phe Ser Phe Leu
 50          55          60
Glu Ile Trp Tyr Ile Tyr Ile Thr Leu Pro Arg Met Val Phe Gly Thr
 65          70          75          80
Gln Lys Arg Ala Met Ser Phe Ile Ala Cys Ala Thr Lys Leu Cys Phe
 85          90          95
Thr Pro Thr Leu Gly Ala Thr Lys Gly Phe Leu Leu Ala Val Met Tyr
100          105          110
Asn Asp Ile Tyr Val Ala Val Gly Asn Pro Leu Leu Tyr Ser Leu Leu
115          120          125
Leu Arg Leu Thr Cys Gly Ser Gln Leu Ser Ala Gly Ser Trp Phe Ser
130          135          140
Gly Met Asn Ser Gly Thr Gly Arg Leu Gln Thr Thr His Lys Phe Ile
145          150          155          160
Ser Leu Ala Gly Ser His His Thr Asn His Ile Phe Cys Asp Ile Pro
165          170          175
Tyr Phe Ser Leu Pro Val Lys Thr Phe Ile Asn Glu Met Val Ile Phe
180          185          190
Leu Asp Ala Val Leu Phe Cys Ser Ser Phe Leu Leu Leu Leu Ile Ile
195          200          205
Tyr Tyr Lys Ile Leu Thr Leu Leu Ser Lys
210          215

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&lt;210&gt; 2339

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2339

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Pro Ser Ala Glu Leu Thr Ser Arg Gly Arg Gln Ser Thr Trp Ser Glu
 1          5          10          15
Glu Pro Pro Ser Ala His Ala Gln Ile Ile Cys Leu Pro Leu Arg Thr
 20          25          30
Gln Leu Ser Ala Pro Ser Cys Asn Gly Glu Cys Gly Arg Gly Ser Gln
 35          40          45
His Asn Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr Thr Leu
 50          55          60
Arg Asn Lys Gln Val Lys Glu Ala Phe Lys His Val Leu His Arg Phe
 65          70          75          80
Cys Phe Leu Gln Asn Asn Glu Thr Met Phe Arg His Ala Val Glu Thr
 85          90          95
Ser Gly Val Lys
100

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<210> 2340  
 <211> 273  
 <212> PRT  
 <213> Mus musculus

<400> 2340  
 Pro Thr Met Leu Phe Ser Tyr Ile Cys Thr Tyr Ser Ala Gly Glu Glu  
 1 5 10 15  
 Arg Leu Phe Thr Pro Leu Glu Leu Ile Gly His Met Val Ser Ser Phe  
 20 25 30  
 Leu Val Leu Ser Cys Tyr Gln Asn Val Ile Thr Leu Leu Met Met Met  
 35 40 45  
 Ser Phe Val Gln Asp Asn Asp Val Thr Pro Ser Leu Asn Met Thr Leu  
 50 55 60  
 Leu Ser Ser Phe Leu Ile Phe Val Thr Tyr Val Asn Trp Trp His Ala  
 65 70 75 80  
 Thr Met Ala Tyr Asp His Tyr Ala Val Thr Ser Asn Cys Leu Val Asn  
 85 90 95  
 Asn Val Ile Met Ser Gln Val Cys Phe Trp Met Val Ser Glu Met His  
 100 105 110  
 Ala Met Gly Phe Thr Glu Asp Thr Ile Gln Thr Leu Cys Ile Leu Arg  
 115 120 125  
 Val Leu Leu Cys Lys Gly Lys Val Met Asn Asn Cys Phe Cys Asp Leu  
 130 135 140  
 Leu Pro Leu Leu Pro Leu Ala Tyr Ser Ser Thr Phe Val Asn Lys Ile  
 145 150 155 160  
 Val Leu Leu Tyr Asn Ser Ala Phe Asn Met Phe Gln Pro Arg Leu Thr  
 165 170 175  
 Ile Ala Pro Tyr Thr Phe Asn Ile Thr Cys Ile Leu Cys Ile Lys Ser  
 180 185 190  
 Thr Asn Gly Arg Val Asn Ala Phe Ser Ser Tyr Asn Ser His Phe Phe  
 195 200 205  
 Ala Val Val Val Phe Leu Gly Ser Leu Ala Phe Ile Tyr Phe Gln Pro  
 210 215 220  
 Phe Ile Cys Ser Lys Lys Lys Asn Lys Ala Ser Ser Leu Phe Tyr Thr  
 225 230 235 240  
 Thr Ile Val Ser Met Leu Asn Ser Leu Ile Tyr Gly Leu Arg Asn Lys  
 245 250 255  
 Tyr Val Lys Phe Thr Leu Arg Lys Val Val Lys Lys Gln Asn Leu His  
 260 265 270  
 Val

<210> 2341  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<400> 2341  
 Val Val Leu Leu Ile Leu Val Lys Asn Ile Ile Ser Lys Ser Phe Ile  
 1 5 10 15  
 Ile Thr Ile Ser Gln Leu His Ser Pro Val Tyr Ser Leu Ser His  
 20 25 30  
 Leu Ser Phe Ile Asn Phe Cys Tyr Ser Ser Val Ile Ile Pro Lys Met  
 35 40 45  
 Leu Val Asn Phe Val Cys Glu Lys Asp Met Ile Phe Leu Glu Cys Met

50		55		60
Ile Gln Leu Tyr Phe	Ile Ile Phe Val Ile Ala Gly Gly Ser Leu Leu			
65	70	75	80	
Thr Ala Thr Thr Tyr Asp Cys Gln Gly Pro Ala Ser Ala Gln Asp Gln				
	85	90	95	
Ser Ser Lys Leu Glu Ala Gly Ile Pro Gly Arg Arg Ile Thr Asn Thr				
	100	105	110	
His Arg His Leu Phe Gln Glu Gln Ser Leu Arg Gln Val Ser Arg Leu				
	115	120	125	
Glu Val Ala Leu His Leu Phe Cys Val Ser Leu Ser Leu Ser Leu Ser				
	130	135	140	
Leu Ser Ser Val Ser Val Ser Val Cys Thr Tyr Ser Ser Leu Ser Cys				
145	150	155	160	
Thr Leu Cys Phe Ser Leu Leu His Phe Ala Phe Leu Lys Leu Pro Met				
	165	170	175	
Phe Leu His Thr Ser Val Tyr Ser Pro Phe Thr His Thr Tyr Thr Ile				
	180	185	190	
Tyr Thr His Leu Thr His Ile Pro Leu Met Cys Ser Phe Thr His Ile				
	195	200	205	
Asp Thr Pro Leu Thr Leu Thr Leu Phe Leu Tyr Ser Phe Ser His Thr				
	210	215	220	
Pro Tyr Ser Ser Leu Pro Phe				
225	230			

<210> 2342

<211> 217

<212> PRT

<213> Mus musculus

<400> 2342

Leu Phe Phe Lys Phe Tyr Tyr Ser Ser Phe Phe Ile Thr His Arg Lys	
1	5
Asn Asn Thr Asp Leu Ser Ser Phe Pro Ile Thr Ser Met Met Tyr Val	
	20
His Tyr Ile Leu His Tyr Ile Ser Ile Met Arg Lys Glu Leu Gly Ala	
	35
Leu Leu Glu Ala Val Phe Trp Ile Leu Tyr Asn Ala Ser Ser Phe Thr	
	50
Cys Val Phe His Cys Cys Ser Ser Val Leu Met Ala Cys Phe Cys Asp	
65	70
Leu Thr Ala Met Ile Lys Leu Ser Cys Leu Asp Thr Phe Leu Lys Glu	
	85
Leu Val Met Phe Thr Val Arg Val Ala Val Ile Thr Leu Ala Phe Ile	
	100
Cys Thr Leu Val Ser Tyr Gly Tyr Thr Gly Ala Thr Val Leu Arg Gly	
	115
Pro Ser Thr Met Gly Ile Tyr Lys Ala Leu Tyr Thr His Gly Phe Tyr	
	130
Leu Leu Val Val Ser Leu Tyr Tyr Gly Gly Ile Phe Gly Tyr Leu Phe	
145	150
Pro Glu Leu Ser Asn Arg Met Asp Lys Asp Thr Ile Ile Ala Val Met	
	165
Thr Ala Val Thr Pro Met Leu Asn Leu Phe Ile Cys Asn Leu Arg Asn	
	180
Arg Asp Thr Lys Glu Ala Leu Gly Ile Leu Leu Ser Ser Lys Arg Phe	
	195
Tyr Met Ile Thr Ser Glu Tyr Phe His	
	210
	215

<210> 2343  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2343  
 Met Glu Asp Lys Asn Glu Thr Ile Val Ser Glu Phe Leu Phe Leu Ser  
 1 5 10 15  
 Leu Thr Asn Arg Leu Tyr Gln Lys Ile Ile Leu Phe Ile Leu Leu Leu  
 20 25 30  
 Phe Ile Tyr Val Ile Thr Gly Gly Gly Asn Leu Gly Met Val Thr Val  
 35 40 45  
 Ile Trp Val Asp Pro Arg Phe His Thr Ser Met Tyr Tyr Phe Ile Ser  
 50 55 60  
 His Leu Ser Phe Val Asp Met Cys Ser Ser Ser Ser Ile Ala Pro Arg  
 65 70 75 80  
 Met Leu Tyr Asp Ile Phe Thr Glu Glu Asn Lys Asn Ile Ser Phe Val  
 85 90 95  
 Cys Cys Thr Val Leu Trp Phe Ala Gly Leu Phe Glu Gly Thr Glu Cys  
 100 105 110  
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Gln Tyr Thr Ala Thr Cys Lys  
 115 120 125  
 Pro Leu Leu Tyr Thr Leu Ile Met Ser Lys Arg Val Cys Ala Gln Phe  
 130 135 140  
 Val Ile Trp Pro Tyr Leu Leu Ala Ala Ile Asn Ile Lys Thr His Glu  
 145 150 155 160  
 Thr Leu Thr Phe Cys Leu Pro Phe Cys Gly Ser Asn Thr Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Met Leu Val Leu Ala Cys Ala Asp Ser  
 180 185 190  
 Ser Ile Asn Lys Ile Val Val Phe Val Leu Asp Gly Ala Ile Gly Val  
 195 200 205  
 Phe Ser Gly Val Ile Ile Thr Val Ser Tyr Ile Ser Ile Leu Met Ala  
 210 215 220  
 Ile Leu Lys Ile Gln Thr Thr Asn Arg Arg Met Lys Asp Phe Ser Thr  
 225 230 235 240  
 Tyr Ser Ser His Leu Ala Gly Val Ser Ile Gln Tyr Gly Thr Val Leu  
 245 250 255  
 Phe Ile Tyr Val Arg Pro Ser Thr Leu Asn Thr Asn Lys Val Ile Ser  
 260 265 270  
 Leu Phe Tyr Thr Val Met Ile Ser Met Leu Asn Pro Leu Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Arg Arg Lys Val Gln Arg  
 290 295 300  
 Lys His Phe Ser Arg Asp Trp  
 305 310

<210> 2344  
 <211> 248  
 <212> PRT  
 <213> Mus musculus

<400> 2344  
 Met Lys Ala Phe Ser Ser Pro Ser Asn Ser Ser Thr Ile Thr Gly Phe  
 1 5 10 15  
 Ile Leu Leu Gly Phe Pro Cys His Arg Glu Gly Gln Ile Leu Leu Phe





Met Tyr Leu Lys Pro Ser Ser Ala Ser Val Asp Glu Glu Lys Leu Ser  
180 185 190  
Thr Ile Phe Tyr Thr Ile Leu Gly Pro Met Leu Asn Pro Phe Ile Tyr  
195 200 205  
Ser Ile Arg Asn Lys Asp Val His Leu Ala Leu Arg Lys Thr Leu Met  
210 215 220  
Lys Leu Arg Phe Ser  
225

<210> 2346  
<211> 268  
<212> PRT  
<213> Mus musculus

<400> 2346  
Gly His Thr Ser Cys Gln Ser Leu Gly Gln Ala Phe Ile Leu Leu Gly  
1 5 10 15  
Leu Thr Gln Gln Pro Glu Leu Gln Leu Pro Leu Phe Phe Gln Phe Leu  
20 25 30  
Gly Ile Tyr Val Val Ser Ile Val Gly Asn Leu Gly Leu Ile Val Leu  
35 40 45  
Ile Val Leu Asn Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe  
50 55 60  
Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Lys  
65 70 75 80  
Met Leu Val Gly Phe Val Asn Gln Asn Ile Ile Ala His Ala Glu Cys  
85 90 95  
Leu Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Leu Asp Glu Cys Tyr  
100 105 110  
Ile Cys Thr Glu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Lys Thr  
115 120 125  
Leu Leu Asn Gln Val Thr Met Ser His Gln Val Cys Leu Gly Asn His  
130 135 140  
Lys Arg Leu Asp Tyr Ile Ile Phe Arg Asn Gly Lys Ile Lys Lys Ile  
145 150 155 160  
Phe Leu Asn Val His Ile Tyr Phe Ile Ile Phe Phe Val Cys Gly Thr  
165 170 175  
Ser Tyr Pro Ser Leu Ser Cys Ala Ser Val Pro Leu Thr Tyr Ile Leu  
180 185 190  
Arg Val Gly Thr Phe Val Ser Phe Val Trp Leu Ser Gln Thr Met Ser  
195 200 205  
Tyr Tyr Phe Ile Ile Ala Asn Leu Trp Asp Asn Leu Glu Ser Ser Phe  
210 215 220  
Arg Leu Ile Cys Cys Ser Lys Gly Ser Lys Glu Gly Lys Lys Leu Leu  
225 230 235 240  
Ser Phe Trp Ser Phe Phe Ile Val Leu Lys Gln Phe Arg Lys Glu Gly  
245 250 255  
Leu Thr Ser Tyr Gln Pro Ser Asn Ile His Asp Ser  
260 265

<210> 2347  
<211> 213  
<212> PRT  
<213> Mus musculus

<400> 2347  
Glu Ser Gly Pro Leu Pro Leu Pro Ser Leu Val Trp Gln Gln Asn Leu

1		5		10		15									
Ser	Phe	Asp	Gln	Ser	Asn	Cys	Leu	Gly	Tyr	Ile	Ser	Phe	Ser	Arg	Pro
		20						25					30		
Leu	Ala	Pro	Leu	Leu	Phe	Gln	Val	Ser	Lys	Met	His	Phe	Gln	Ala	Arg
		35					40					45			
Thr	Gln	Val	Val	Val	Cys	Trp	Pro	Asp	Thr	Thr	Ile	Arg	Phe	Ala	Gly
	50					55					60				
Ser	Ser	Val	His	Thr	Gly	Cys	Val	Phe	Leu	Gly	His	Ala	Ile	Asn	His
65					70					75				80	
Leu	Phe	Asn	Ile	Leu	Thr	Leu	Leu	Gln	Leu	Ser	Ala	Thr	Thr	Tyr	Val
			85					90						95	
Asn	Val	Val	Ile	Leu	Ile	Gly	Val	Tyr	Ile	Thr	Val	Pro	Ser	Phe	Thr
		100						105					110		
Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Phe	Ile	Asn	Ile	Leu	Asn	Ile	Lys
		115						120				125			
Ser	Met	Gln	Arg	Ile	Ser	Lys	Asp	Phe	Ser	Ile	Cys	Arg	Phe	His	Ile
	130					135					140				
Ala	Ser	Ile	Tyr	Val	Phe	Ile	Glu	Phe	Thr	Ala	Phe	Lys	Cys	Phe	Lys
145					150					155				160	
Tyr	Ser	Tyr	Gly	Ser	Ile	Asp	Gln	Gly	Phe	Tyr	Ser	Ser	Val	Phe	Tyr
			165					170					175		
Thr	Asp	Val	Ile	Leu	Ile	Leu	Asn	Ile	Ile	Ile	Tyr	Ser	Met	Cys	Ile
		180						185					190		
Met	Asp	Val	Glu	Met	Ala	Leu	Met	Asp	Ala	Leu	Met	Lys	Phe	Gln	Arg
		195					200					205			
Asn	Val	Phe	His	Leu											
		210													

<210> 2348

<211> 274

<212> PRT

<213> Mus musculus

<400> 2348

Leu	Gln	Ile	Leu	Trp	Lys	Lys	Lys	Gly	Ile	Ala	Glu	Leu	Gln	Leu	Leu
1			5					10					15		
Leu	Phe	Phe	Asn	Leu	Leu	Val	Val	Thr	Ile	Val	Gly	Asn	Leu	Asp	Thr
			20					25				30			
Leu	Ile	Ser	Ile	Leu	Phe	Ser	Ser	Gln	Leu	His	Thr	Pro	Val	Val	Tyr
		35				40					45				
Leu	Leu	Ser	Arg	Leu	Leu	Phe	Ile	Asp	Cys	Ser	Lys	Ser	Thr	Val	Ile
	50					55				60					
Thr	Pro	Thr	Met	Leu	Leu	Asn	Phe	Ala	Thr	Glu	Ser	Val	Ile	Cys	Tyr
65					70					75				80	
Glu	Cys	Ile	Pro	Gln	Tyr	Tyr	Phe	Cys	Ala	Phe	Gly	Ala	Ala	Lys	Cys
			85					90						95	
Val	Leu	Leu	Ala	Ala	Val	Ala	Tyr	Asp	Leu	Cys	Val	Ala	Val	His	Asn
		100						105					110		
Pro	Leu	Leu	Tyr	Asn	Leu	Ile	Ile	Ser	Tyr	Gln	Leu	Trp	Ser	Ile	Val
		115					120					125			
Val	Val	Val	Tyr	Gly	Arg	Gly	Leu	Leu	Cys	Thr	Val	Ala	His	Thr	Val
	130					135				140					
Phe	Val	Leu	Arg	Val	Phe	Cys	Phe	Leu	Gln	Asp	Trp	Tyr	Ile	Lys	Pro
145					150					155				160	
Leu	Leu	Ser	Gly	Ser	Ser	Thr	Phe	Ile	Ser	Glu	Leu	Leu	Ala	Ser	Ala
			165					170					175		
Phe	Asn	Leu	Thr	Leu	Leu	Cys	Leu	Gly	Ile	Leu	Ser	Tyr	Tyr	Ile	Phe
		180						185					190		



305

<210> 2350  
<211> 283  
<212> PRT  
<213> Mus musculus

<400> 2350  
Thr Leu Leu Leu Gly Phe Pro Ile Arg Pro Glu Gln Gln Tyr Ile Phe  
1 5 10 15  
Phe Thr Leu Leu Leu Ala Met Cys Leu Thr Thr Val Leu Ser Ser Cys  
20 25 30  
Thr Ser Thr His Leu His Thr Leu Met Tyr Leu Phe Leu Ile Ile Leu  
35 40 45  
His Ile Trp Leu Asp Ser His Pro Gln Val Pro Met Tyr Phe Phe Leu  
50 55 60  
Ser His Leu Ala Ser Val Ser Ser Val Thr Val Ser Glu Met Leu Trp  
65 70 75 80  
Ser Ile Gln Thr Gln His Leu Ser Ile Pro Tyr Glu Gly His Phe Ser  
85 90 95  
Asn Leu Val Phe Pro Tyr Phe Phe Tyr Met Leu Asp Asn Leu Leu Leu  
100 105 110  
Glu Met Val Val Tyr Glu Arg Tyr Val Ser Ile His Pro Leu Tyr Tyr  
115 120 125  
Thr Ile Val Met Arg Glu Glu Leu Tyr Asp Leu Leu Val Ser Gly Cys  
130 135 140  
Cys Phe Ile Ser Tyr Ile His Thr Leu Leu His Thr Leu Leu Leu Cys  
145 150 155 160  
Gln Ser Ile Pro Tyr His Phe Cys Tyr Phe Asn Glu His Leu Lys Leu  
165 170 175  
Ser Cys Leu Asn Thr Pro Phe Asn Glu Leu Val Ile Phe Ile Glu Gly  
180 185 190  
Val Leu Thr Phe Leu Pro Leu Gly Thr Ile Ser Gly Pro Tyr Ile Cys  
195 200 205  
Thr Gly Ala Thr Val Leu Lys Cys Pro Ser Met Lys Asn Ile Tyr Lys  
210 215 220  
Val Leu His Gly Ala Phe Ala Leu Val Leu Ala Ile Ile Tyr Phe Phe  
225 230 235 240  
His Phe Ser Asn Asn Ser Lys Phe Lys Val Val Ile Val Ser Val Met  
245 250 255  
Tyr Thr Val Val Thr Thr Met Leu Asn Pro Phe Ile Tyr Ser Ile Glu  
260 265 270  
Ile Lys Leu Ala His Gly Pro Leu Tyr Arg Lys  
275 280

<210> 2351  
<211> 304  
<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (166)...(200)  
<223> Any amino acid

<400> 2351  
Met Glu Asn His Ser Leu Thr Leu Val Thr Glu Phe Ile Leu Met Gly

1				5					10					15			
Ile	Thr	Glu	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu		
			20					25					30				
Ile	Ile	Tyr	Ile	Phe	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu		
		35					40					45					
Thr	Met	Val	Glu	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg		
		50				55					60						
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys		
65					70					75					80		
Met	Leu	Arg	Ser	Phe	Leu	Val	Asp	Gln	Asn	Arg	Ile	Ser	Phe	His	Phe		
				85					90					95			
Cys	Ala	Val	Gln	Phe	Ala	Phe	Phe	Ser	Met	Phe	Ile	Ile	Ser	Glu	Phe		
			100					105					110				
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys		
		115					120					125					
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Arg	Val	Cys	Trp	Val	Leu		
		130				135					140						
Val	Thr	Ile	Pro	Tyr	Leu	Ser	Ile	Phe	Val	Ala	Leu	Ile	Ala	Thr	Ile		
145					150					155					160		
Asn	Ile	Phe	Ser	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
				165				170							175		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
			180					185					190				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Pro	Leu	Val	Ile	Leu	Val	Ser		
		195					200					205					
Tyr	Leu	Leu	Ile	Leu	Arg	Ala	Ile	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly		
		210				215					220						
Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ile		
225					230					235					240		
Val	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met	Tyr	Val	Gln	Pro	Lys	Ser	Ser		
				245					250					255			
His	Ser	Leu	Asn	Thr	Asp	Asn	Ala	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Ile		
			260					265					270				
Ile	Leu	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val		
		275					280					285					
Lys	Tyr	Ser	Ile	Arg	Lys	Thr	Gly	Lys	Thr	Ile	Gln	Asn	Ile	Phe	Ser		
		290				295					300						

<210> 2352

<211> 297

<212> PRT

<213> Mus musculus

<400> 2352

Met	Glu	Lys	Tyr	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly		
1				5					10					15			
Ile	Pro	Tyr	His	Pro	Glu	Phe	Gln	Val	Leu	Leu	Phe	Gly	Leu	Phe	Leu		
			20					25					30				
Ile	Ile	Tyr	Leu	Thr	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu		
		35					40					45					
Ala	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg		
		50				55					60						
His	Leu	Ala	Thr	Ile	Asp	Leu	Gly	Trp	Ser	Thr	Lys	Met	Leu	Asn	Asn		
65					70					75					80		
Phe	Leu	Val	Asp	Gln	Asn	Ala	Ile	Ser	Phe	Tyr	Ala	Cys	Ala	Ile	Gln		
				85					90					95			
Leu	Ser	Phe	Phe	Ser	Met	Phe	Thr	Ile	Lys	Lys	Phe	Phe	Ile	Leu	Ser		
			100					105					110				

Ala	Met	Ser	Tyr	Asp	Cys	Tyr	Val	Ala	Phe	Cys	Lys	Pro	Leu	Leu	Tyr	
		115					120					125				
Thr	Ile	Ile	Met	Ala	Ile	Trp	Val	Met	Ile	Leu	Ile	Thr	Ile	Val	Asp	
	130					135					140					
Ser	Arg	Gln	Lys	Thr	Pro	Met	Asn	Ile	Ile	Leu	Gln	Thr	Cys	Ser	Asn	
145					150					155					160	
Tyr	Asn	Phe	His	Leu	Leu	Asn	Ser	Cys	Gln	Tyr	Gln	Asn	Phe	Glu	Ile	
			165						170					175		
Phe	Tyr	Cys	Gly	Ser	Lys	Pro	Val	Ser	Phe	Arg	Leu	Phe	Ala	Ser	Gln	
			180					185					190			
Ile	Ser	Leu	Leu	Tyr	Phe	Pro	His	Ser	Leu	Ala	Phe	Tyr	Tyr	Phe	Ile	
	195					200						205				
Ile	Ser	Val	Thr	Ser	Met	Trp	Pro	Val	Ala	Ala	Asn	Leu	Cys	Phe	Tyr	
	210					215					220					
Gly	His	His	Ile	Lys	Lys	Ser	Leu	Leu	Val	Ser	Ser	Gly	Asp	His	Leu	
225					230					235					240	
Tyr	Leu	Thr	Thr	Leu	Pro	Val	Ile	Met	Lys	Ile	Lys	Met	Phe	Thr	Leu	
				245					250					255		
Phe	Phe	Cys	Val	His	Lys	Ser	Ser	Val	Ile	Ser	Asn	Ala	Thr	Val	Phe	
			260					265					270			
Leu	Phe	Asn	Val	Ala	Leu	Phe	Glu	Tyr	Ser	Gln	Asn	Thr	Asp	His	Leu	
		275					280					285				
Ile	Ser	Ser	Ala	Phe	Phe	Pro	Leu	Phe								
	290					295										

<210> 2353

<211> 271

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (139)...(145)

<223> Any amino acid

<400> 2353

Met	Glu	Lys	Gln	Asn	Leu	Thr	Val	Leu	Ser	Glu	Phe	Ile	Leu	Lys	Gly	
1				5					10					15		
Ile	Thr	Asp	Arg	Pro	Glu	Met	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Leu	Phe	
			20					25					30			
Ile	Ile	Tyr	Leu	Ile	Ser	Ala	Val	Gly	Asn	Leu	Gly	Ile	Ile	Ile	Ile	
		35					40					45				
Thr	Asn	Val	Gly	Ser	Arg	Leu	Cys	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Lys	
	50					55					60					
His	Leu	Ala	Phe	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys	
65					70					75				80		
Met	Leu	Val	Asn	Phe	Val	Ala	Glu	Asn	Asn	Ser	Val	Ser	Tyr	Tyr	Leu	
				85					90					95		
Cys	Ala	Thr	Gln	Leu	Ala	Cys	Phe	Leu	Leu	Phe	Ile	Thr	Trp	Glu	Leu	
			100					105					110			
Leu	Ile	Phe	Ser	Ser	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Pro	Ile	Cys	Asn	
		115					120					125				
Pro	Leu	Leu	Tyr	Thr	Gly	Ile	Met	Ser	Gln	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
	130					135					140					
Xaa	Glu	Phe	Trp	Val	Leu	Ile	Leu	Thr	Phe	Phe	Ile	Ile	Ile	Ile	Leu	
145					150					155					160	
Glu	Lys	Lys	Ile	Lys	Val	Pro	Leu	Leu	Ser	Phe	Arg	Gly	Lys	Gly	Glu	
				165					170					175		

Phe	Lys	Gln	Asp	Leu	Ser	Thr	Leu	Cys	Ile	Glu	Tyr	His	Val	Glu	Val
			180					185					190		
Ser	Ser	Asp	His	Lys	Cys	Val	Ser	Leu	Ser	Phe	Met	Met	Ser	Gly	Lys
		195					200					205			
Ala	Lys	Glu	Thr	Leu	Asn	Cys	Leu	Cys	Ser	Leu	Leu	Thr	Phe	Gln	Lys
	210					215					220				
Lys	Met	Gly	Pro	Leu	Cys	Gly	Leu	Phe	Leu	Phe	Phe	Tyr	Gly	Val	Arg
225					230					235					240
Gln	Ala	Phe	Tyr	Phe	Arg	Leu	Gln	Phe	Ile	Tyr	Met	Cys	Cys	Leu	Gln
				245					250					255	
Met	Lys	Phe	Asp	Tyr	Asp	Ile	Lys	Leu	Leu	Ile	Ser	Val	His	Tyr	
			260					265					270		

<210> 2354

<211> 268

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (194)...(229)

<223> Any amino acid

<400> 2354

Met	Asp	Gly	Gly	Asn	Gln	Thr	Ile	Val	Ser	Glu	Phe	Ile	Leu	Gln	Gly
1				5				10					15		
Leu	Ala	Asn	Ser	Lys	Asn	Ile	Gln	Val	Leu	Leu	Phe	Met	Ile	Leu	Leu
		20						25					30		
Thr	Leu	Tyr	Leu	Leu	Ile	Met	Ser	Gly	Asn	Ile	Val	Ile	Leu	Ile	Leu
		35					40					45			
Ile	Thr	Thr	Asp	Pro	His	Leu	Leu	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Met	Ser	Phe	Val	Asp	Met	Trp	Leu	Ser	Ser	Asn	Ile	Thr	Pro	Lys
65					70					75					80
Met	Ile	Thr	Gly	Phe	Leu	Arg	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Ala	Gly
			85						90					95	
Cys	Met	Phe	Gln	Val	Phe	Phe	Ser	His	Cys	Ile	Ala	Ala	Gly	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Ile	Thr	Ile	Met	Asn	Leu	Lys	Arg	Cys	Thr	Gly	Leu
	130					135					140				
Val	Phe	Thr	Ser	Trp	Ile	Ile	Gly	Phe	Ile	His	Gly	Ile	Ser	His	Leu
145					150					155					160
Val	Val	Val	Val	His	Leu	Arg	Phe	Cys	Gly	Pro	Lys	Glu	Thr	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Met	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Met	Asp	Ser
			180					185					190		
His	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	210					215					220				
Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Thr	Val	Val	Leu	Tyr	Thr	Phe	Pro	Asn	Ser
225					230					235					240
His	Val	Thr	Trp	Glu	Asn	Ile	Asn	Lys	Phe	Phe	Pro	Ser	Ile	His	Leu
				245					250					255	
Tyr	Ala	Ile	His	Thr	Pro	Lys	Leu	Ser	Thr	Ser	Ile				
			260					265							

<210> 2355  
 <211> 231  
 <212> PRT  
 <213> Mus musculus  
  
 <220>  
 <221> CONFLICT  
 <222> (89)...(96)  
 <223> Any amino acid

<400> 2355  
 Thr His Thr Glu Asp Ser Asn Gln Thr Val Val Ser Ala Phe Ile Phe  
 1 5 10 15  
 Gln Gly Leu Cys Thr Ser Arg Gln Leu Glu Ile Phe Leu Leu Leu Pro  
 20 25 30  
 Phe Ser Val Leu Tyr Leu Met Thr Leu Val Asp Asn Leu Phe Val Val  
 35 40 45  
 Ile Leu Ile Ile Thr Asp His His Phe Asn Ser Pro Met Tyr Phe Leu  
 50 55 60  
 Ser Ala Asn Leu Ser Phe Gly Asp Phe Tyr Leu Ser Ser Val Asn Thr  
 65 70 75 80  
 Pro Lys Leu Thr Ile Asp Leu Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 85 90 95  
 Leu Met Ser Val Leu Leu Leu Arg Asn Thr Leu Thr Met His Ser Phe  
 100 105 110  
 Tyr Lys Gly Lys His Leu Ile Gly Asn Ser Leu Gln Phe Gln Arg Phe  
 115 120 125  
 Ile Ser Phe Ser Ser Leu Trp Val Val Ile Ala Ala Cys Arg Tyr Thr  
 130 135 140  
 Cys Thr Gly Asp Ile Val Glu Arg Ser Thr Asp Arg Ser Met His Asn  
 145 150 155 160  
 Arg Lys Lys Glu Thr Leu Asn Leu Lys Ala Phe Glu Ile Thr Asn Pro  
 165 170 175  
 Ser Phe Ser Cys Thr Leu Pro Gln Thr Arg Cys Met Pro Ser Asn Pro  
 180 185 190  
 Ser Gln Val Met Pro Leu Pro Asn Asp Val Phe Lys Tyr Ile Ser Leu  
 195 200 205  
 Lys Val Phe Leu Phe Lys Ala Phe Ser Leu Ile Ile Met Asn Ala Phe  
 210 215 220  
 Ser Pro Thr Ser Lys Val Ser  
 225 230

<210> 2356  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2356  
 Met Lys Asn Lys Ser Met Glu Leu Asp Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asp Asp Pro Gln Leu Gln Ile Val Val Phe Leu Phe Leu Phe Leu Asn  
 20 25 30  
 Tyr Val Met Ser Leu Val Gly Asn Leu Ile Ile Val Leu Leu Thr Leu  
 35 40 45  
 Leu Asp Pro Arg Leu Lys Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe  
 50 55 60



Ser	Phe	Leu	Glu	Ile	Met	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Thr	Thr	Ile	Val	Thr	Gly	Asp	Lys	Thr	Ile	Thr	Tyr	Asn	Asn	Cys	Ala
				85					90					95	
Ala	Gln	Leu	Phe	Ile	Leu	Leu	Leu	Gly	Val	Thr	Glu	Phe	Tyr	Leu	
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115				120						125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Gln	Leu	Val	Leu
	130					135					140				
Ser	Ser	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Ala	Met
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Asp	Ser	Arg	Ile	Ile	Asp	His	Phe	Met
				165					170					175	
Cys	Glu	Thr	Ser	Pro	Ile	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	His	Val
			180					185					190		
Leu	Glu	Met	Met	Ser	Phe	Val	Leu	Ala	Val	Val	Thr	Leu	Val	Val	Thr
		195					200					205			
Leu	Val	Leu	Val	Ser	Leu	Ser	Tyr	Ser	Phe	Ile	Ile	Lys	Thr	Ile	Met
	210					215						220			
Ser	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Thr
225					230					235					240
Ser	His	Met	Phe	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
				245					250					255	
Tyr	Ile	Lys	Pro	Ser	Ala	Arg	Glu	Arg	Val	Ser	Val	Ser	Lys	Gly	Val
			260				265						270		
Ala	Leu	Leu	Tyr	Thr	Ser	Ile	Ala	Pro	Ser	Pro	Glu	Pro	Leu	Leu	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Glu	Val	Phe	Trp	Asp	Val	Leu	Gln
	290					295					300				
Lys	Thr	Leu	Gly	Phe	Ser	Lys	His	Lys	Val						
305					310										

<210> 2357

<211> 221

<212> PRT

<213> Mus musculus

<400> 2357

Ser	Tyr	Ala	Gly	Cys	Val	Ser	Gln	Leu	Val	Phe	Tyr	His	Phe	Leu	Gly
1				5					10					15	
Gly	Thr	Glu	Cys	Phe	Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val
			20					25					30		
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Ser	His	Arg	Ile
		35					40					45			
Cys	Ala	Phe	Leu	Ala	Met	Gly	Thr	Ala	Val	Phe	Gly	Cys	Ile	His	Ser
	50					55					60				
Thr	Phe	Leu	Thr	Thr	Leu	Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Lys
65					70					75				80	
Asp	Val	Asn	Tyr	Tyr	Phe	Cys	Asp	Ile	Pro	Val	Val	Met	Lys	Leu	Ala
				85					90					95	
Cys	Ala	Asp	Thr	Ser	Thr	Leu	Glu	Met	Val	Gly	Phe	Ile	Ser	Val	Gly
			100					105					110		
Leu	Met	Pro	Leu	Ser	Cys	Phe	Phe	Ile	Leu	Thr	Ser	Tyr	Ser	Cys	
		115					120					125			
Ile	Val	Arg	Ser	Ile	Leu	Gln	Ile	Arg	Ser	Thr	Glu	Gly	Arg	His	Arg
	130					135					140				
Ala	Phe	Ser	Thr	Cys	Ser	Ala	His	Phe	Thr	Ala	Ile	Leu	Leu	Phe	Tyr

145					150					155				160
Met	Pro	Val	Ile	Phe	Ile	Tyr	Leu	Arg	Pro	Thr	Pro	Ser	Pro	Trp
				165					170				175	
Asp	Ala	Thr	Val	Gln	Ile	Leu	Asn	Asn	Leu	Val	Thr	Pro	Met	Leu
			180					185					190	
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ser	Leu
		195					200					205		
Thr	Val	Leu	His	Leu	Leu	Cys	Phe	Leu	Pro	Lys	His	Leu		
	210					215					220			

<210> 2358  
 <211> 199  
 <212> PRT  
 <213> Mus musculus

<400> 2358

Ile	Leu	Leu	Thr	Leu	Met	Gly	Tyr	Asp	Arg	Phe	Leu	Ala	Ile	Cys	Asn
1				5					10					15	
Pro	Leu	Arg	Tyr	Pro	Leu	Leu	Met	Thr	Asn	Val	Ala	Cys	Gly	Gln	Leu
			20					25					30		
Val	Ala	Ser	Ala	Trp	Val	Gly	Gly	Phe	Phe	Ile	Ser	Leu	Ile	Glu	Thr
		35				40						45			
Thr	Leu	Ile	Phe	Arg	Val	Ser	Phe	Cys	Ile	Pro	Asn	Leu	Ile	Arg	His
	50					55					60				
Phe	Phe	Cys	His	Met	Arg	Ala	Val	Leu	Arg	Leu	Ser	Cys	Thr	Asp	Ser
65					70					75				80	
Asn	Phe	Thr	Glu	Phe	Ile	Val	Thr	Leu	Met	Ser	Val	Ser	Gly	Leu	Leu
				85					90					95	
Gly	Thr	Phe	Leu	Leu	Ile	Leu	Leu	Thr	Tyr	Val	Phe	Ile	Leu	Ser	Ser
			100					105					110		
Val	Leu	Lys	Ile	Pro	Ser	Ala	Glu	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr
		115					120					125			
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Leu	Ile	His	Phe	Gly	Phe	Ala	Ser
	130					135					140				
Val	Val	Tyr	Met	Lys	Pro	Glu	Asn	Ser	Gly	Gly	Asp	Asp	Thr	Leu	Ile
145					150					155				160	
Ala	Val	Pro	Tyr	Thr	Val	Ile	Thr	Pro	Phe	Leu	Ser	Pro	Ile	Ile	Phe
				165					170					175	
Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Asn	Ala	Phe	Arg	Lys	Ile	Met	Arg
			180					185					190		
Lys	Thr	Val	Val	Leu	Lys	Lys									
		195													

<210> 2359  
 <211> 182  
 <212> PRT  
 <213> Mus musculus

<400> 2359

Arg	Val	Cys	Ile	Leu	Phe	Leu	Val	Met	Ala	Trp	Ala	Gly	Gly	Leu	Ala
1				5					10					15	
His	Ala	Phe	Val	Gln	Val	Leu	Ala	Val	Tyr	Asn	Phe	Pro	Phe	Cys	Gly
			20					25					30		
Pro	Asn	Ile	Ile	Asp	His	Phe	Gly	Cys	Asp	Ile	Tyr	Pro	Leu	Leu	Leu
		35					40					45			
Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Phe	Leu	Gly	Leu	Ser	Ile	Ile	Gly	Asn
	50					55					60				

Asn	Gly	Ala	Met	Cys	Ile	Val	Ile	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Tyr
65					70					75					80
Gly	Ile	Ile	Leu	Arg	Phe	Leu	Lys	Asn	His	Ser	Gln	Glu	Gly	Arg	Arg
				85					90					95	
Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Thr	Val	Val	Phe	Leu	Phe
			100					105					110		
Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr	Val	Arg	Pro	Val	Ser	Ser	Phe	Pro
		115					120					125			
Ile	Asp	Lys	Phe	Ile	Thr	Val	Ile	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu
	130					135					140				
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Asn	Ser	Met
145					150					155					160
Glu	Lys	Leu	Leu	Gln	Lys	Thr	Leu	Ser	Pro	Ser	Arg	Ile	Arg	Leu	Ser
				165					170					175	
Ser	Cys	Cys	Leu	Cys	Tyr										
			180												

<210> 2360  
 <211> 154  
 <212> PRT  
 <213> Mus musculus

<400> 2360

Thr	Leu	Ile	Ile	Ser	Ile	Asn	Ile	Ile	Asp	Ser	Asn	Ile	Ile	Asp	His
1				5					10					15	
Phe	Gly	Cys	Asp	Val	Asn	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Lys
			20					25					30		
Trp	Leu	Ile	Glu	Gln	Met	Val	Ile	Cys	Ser	Ala	Val	Leu	Thr	Phe	Ile
		35					40					45			
Ile	Thr	Leu	Leu	Cys	Ala	Val	Phe	Ser	Tyr	Met	Tyr	Ile	Ile	Arg	Thr
	50					55					60				
Val	Leu	Lys	Phe	Pro	Ser	Ala	Gln	Gln	Lys	Arg	Lys	Ala	Phe	Ser	Thr
65					70					75					80
Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile
			85						90					95	
Phe	Ile	Tyr	Ile	Lys	Pro	Ser	Ala	Lys	Glu	Glu	Val	Thr	Ile	Asn	Lys
			100					105					110		
Cys	Leu	Ser	Gly	Leu	Ile	Ser	Ser	Ile	Ser	Pro	Met	Leu	Asn	Pro	Phe
		115					120					125			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Ser	Gln	Asp	Leu
	130					135					140				
Ile	Lys	Lys	Ile	Ala	Phe	Leu	Leu	Lys	Lys						
145					150										

<210> 2361  
 <211> 132  
 <212> PRT  
 <213> Mus musculus

<400> 2361

Thr	Ser	Leu	Tyr	Glu	Thr	Leu	Met	Tyr	Ala	Cys	Cys	Val	Leu	Met	Leu
1				5					10					15	
Leu	Ile	Pro	Ile	Ser	Phe	Ile	Ser	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Ile
			20					25					30		
Thr	Val	Tyr	His	Met	Ser	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Thr
		35					40					45			
Thr	Cys	Ser	Ser	His	Ile	Ile	Val	Val	Ser	Ile	Phe	Tyr	Gly	Ala	Ala

50		55		60
Phe Tyr Thr Asn Val Leu Pro His Ser Tyr His Thr Pro Glu Lys Asp				
65		70		75
Lys Val Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro				80
	85		90	
Leu Ile Tyr Ser Leu Arg Asn Arg Asp Val Ala Val Ala Leu Arg Lys				95
	100		105	
Val Leu Arg Lys Tyr Ala Ser Ser Gln Arg Leu Arg Val Arg His Ile				110
	115		120	
Pro Glu Lys Tyr				125
130				

<210> 2362

<211> 230

<212> PRT

<213> Mus musculus

<400> 2362

Gln Val Leu Leu Ile Phe Trp Phe Asn Met Lys Pro Ile Ser Phe Val				
1	5		10	15
Gly Cys Phe Leu Gln Met Phe Val Met Asn Thr Phe Leu Pro Met Glu				
	20		25	30
Ser Ser Thr Phe Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys				
	35		40	45
His Pro Leu Trp Phe Leu Ser Ile Ile Lys Lys Gln Phe Val Ile Asn				
	50		55	60
Ala Gly Ile Phe Ile Val Val Arg Asn Leu Leu Ala Thr Leu Pro Thr				
65	70		75	80
Pro Val Leu Ala Ala Arg Leu Asn Tyr Cys Ala Ser Asn Val Val Glu				
	85		90	95
Asn Cys Ile Cys Ala Asn Ile Ser Val Ala Lys Leu Ser Cys Gly Asp				
	100		105	110
Ile Arg Leu Asn Lys Leu Tyr Gln Phe Val Ser Val Trp Cys Leu Leu				
	115		120	125
Gly Ser Asp Leu Val Leu Ile Leu Leu Ser Tyr Cys Phe Ile Leu Arg				
	130		135	140
Val Val Met Cys Gln Gln Ser Gly Gly Thr Val Thr Lys Ala Leu Ser				
145	150		155	160
Thr Cys Gly Ser His Leu Ile Leu Ile Leu Phe Phe Tyr Thr Leu Leu				
	165		170	175
Leu Val Phe Ile Phe Thr Asn Lys Ala Gly Lys Lys Ile Pro Ser Glu				
	180		185	190
Val Pro Ile Leu Leu Asn Val Leu His His Leu Ile Pro Pro Ala Leu				
	195		200	205
Asn Pro Ile Val Tyr Gly Val Arg Thr Gln Glu Ile Lys Gln Gly Ile				
	210		215	220
Ile Lys Leu Phe Lys His				
225	230			

<210> 2363

<211> 312

<212> PRT

<213> Mus musculus

<400> 2363

Met Asn Glu Ala Asn Tyr Ser Glu Val Ser Glu Phe Ile Phe Leu Gly				
1	5		10	15

Leu	Ser	Thr	Tyr	Arg	Pro	Thr	Gln	Tyr	Phe	Leu	Phe	Ala	Phe	Ala	Ile
			20					25				30			
Ile	Ser	Tyr	Ala	Ala	Thr	Phe	Leu	Gly	Asn	Phe	Ser	Val	Val	Phe	Ile
		35					40					45			
Val	Ile	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Phe	Ser	Thr	Ser	Thr	Val	Pro	Lys
	65				70					75					80
Leu	Ile	Ser	Asp	Leu	Tyr	Ser	Gly	His	Ser	Ile	Ile	Ser	Ile	Gln	Ser
				85					90					95	
Cys	Ile	Phe	Gln	Met	Phe	Val	Leu	His	Leu	Leu	Gly	Gly	Cys	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Trp	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Tyr	Tyr	Leu	Thr	Ile	Met	Asn	Pro	Arg	Met	Cys	Leu	Leu	Leu
	130					135					140				
Leu	Ile	Ser	Ala	Trp	Ile	Ile	Gly	Leu	Ile	His	Ser	Val	Ala	Gln	Leu
	145				150					155					160
Ala	Phe	Val	Val	His	Leu	Pro	Phe	Cys	Ala	Ser	Asn	Glu	Ile	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Met	Ala	Cys	Ile	Asn	Thr
			180					185					190		
Tyr	Arg	Met	Glu	Phe	Leu	Val	Thr	Ala	Asp	Ser	Gly	Phe	Ile	Ser	Leu
		195					200					205			
Ser	Thr	Phe	Phe	Leu	Leu	Ile	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Ile
	210					215					220				
Val	Arg	Lys	Gln	Ser	Leu	Gly	Ser	Leu	Ser	Lys	Ala	Phe	Ser	Thr	Leu
	225				230					235					240
Ser	Ala	His	Ile	Cys	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Val	Tyr	Ile	Trp	Pro	Phe	Pro	Thr	Val	Pro	Val	Asp	Lys	Phe	Leu	Ala
			260					265					270		
Ile	Leu	Asp	Phe	Met	Ile	Ile	Pro	Ile	Leu	Asn	Pro	Ala	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Ser	Val	Gln
	290					295					300				
Leu	Leu	Ser	Arg	Lys	Ser	Ile	Cys								
	305				310										

<210> 2364

<211> 227

<212> PRT

<213> Mus musculus

<400> 2364

Met	Glu	Asp	Ser	Asn	Gln	Thr	Val	Val	Ser	Glu	Phe	Ile	Phe	Gln	Gly
1				5					10					15	
Leu	Cys	Thr	Ser	Arg	Gln	Leu	Glu	Ile	Phe	Leu	Leu	Leu	Pro	Phe	Ser
			20					25					30		
Val	Leu	Tyr	Leu	Val	Thr	Leu	Val	Gly	Asn	Leu	Phe	Val	Val	Ile	Leu
		35					40					45			
Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Leu	Ser	Ser	Val	Asn	Thr	Pro	Lys
	65				70					75					80
Leu	Thr	Ile	Asp	Leu	Leu	Lys	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Gly	Gly
				85					90					95	
Cys	Met	Ser	Gln	Ile	Leu	Cys	Val	His	Phe	Phe	Gly	Gly	Ser	Glu	Met

Val	Leu	Leu	Val	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg
	115							120				125			
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Arg	Gln	Lys	Cys	Ile	Trp	Leu
	130						135				140				
Val	Val	Ile	Ser	Trp	Ile	Val	Gly	Phe	Val	His	Ala	Ile	Ser	Gln	Leu
145					150				155						160
Leu	Leu	Ile	Leu	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Leu	Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr
			180					185					190		
Asp	Thr	Leu	Glu	Ile	Leu	Ile	Asn	Ala	Asp	Ser	Gly	Ile	Leu	Ala	Thr
	195						200					205			
Thr	Cys	Phe	Thr	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Leu	Thr
	210					215					220				
Val	Gln	His													
225															

<210> 2365

<211> 271

<212> PRT

<213> Mus musculus

<400> 2365

Met	Ala	Ile	Ile	Gly	Glu	Glu	Asn	Met	Thr	Gln	Ile	Ser	Glu	Ile	Ile
1				5					10				15		
Leu	Leu	Gly	Phe	Gly	Asp	Leu	His	Gly	Leu	Gln	Phe	Leu	Leu	Phe	Gly
		20						25				30			
Leu	Phe	Leu	Ala	Ile	Tyr	Val	Met	Thr	Leu	Leu	Gly	Asn	Ile	Val	Ile
	35						40					45			
Leu	Thr	Val	Val	Ser	Thr	Asp	Cys	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Gly	His	Phe	Ser	Phe	Leu	Glu	Ile	Ser	Tyr	Thr	Thr	Thr	Ile
65					70				75						80
Glu	Pro	Val	Met	Leu	Trp	Thr	Leu	Leu	Ser	Ala	His	Val	Pro	Ile	Ser
			85						90				95		
Leu	Pro	Ala	Cys	Ala	Cys	Gln	Phe	Tyr	Phe	Phe	Ala	Ser	Leu	Val	Ala
		100						105					110		
Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Ser	Trp	Gly	Cys
	130					135					140				
Phe	Gln	Leu	Ala	Leu	Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Ala	Pro	Ile
145					150				155						160
Leu	Leu	Met	Ile	Leu	Ile	Phe	Arg	Leu	Thr	Phe	Cys	Ser	Ala	Asn	Glu
			165						170					175	
Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Lys	Pro	Ile	Met	Lys	Leu	Ala	Cys
		180						185					190		
Thr	Asn	Thr	Gln	Val	Ala	Glu	Met	Thr	Ser	Phe	Ile	Cys	Thr	Ser	Leu
	195						200					205			
Phe	Ala	Leu	Gly	Pro	Phe	Ile	Leu	Thr	Leu	Ala	Ser	Tyr	Ile	His	Ile
	210					215					220				
Ile	Cys	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Thr	Gly	Lys	Gln	Arg	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Tyr	Tyr	Gly
			245						250					255	
Thr	Leu	Gly	Ile	Val	Tyr	Gly	Phe	Pro	Ser	Met	Pro	Gln	Tyr	Glu	
		260						265					270		

<210> 2366  
 <211> 134  
 <212> PRT  
 <213> Mus musculus

<400> 2366  
 Lys Leu Pro Cys Gly Asn Val Lys Val Asn Ala Ile Tyr Gly Leu Met  
 1 5 10 15  
 Val Ala Leu Leu Ile Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser  
 20 25 30  
 Tyr Ile Met Ile Leu Arg Ala Val Ser Leu Ser Ser Ala Asp Ala  
 35 40 45  
 Arg Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Cys Ala Ile Val  
 50 55 60  
 Phe Ser Tyr Ser Pro Thr Phe Leu Ser Phe Phe Ser His His Phe Gly  
 65 70 75 80  
 Gly His Thr Ile Pro Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr  
 85 90 95  
 Leu Leu Leu Pro Pro Thr Met Asn Pro Val Val Tyr Gly Val Lys Thr  
 100 105 110  
 Lys Gln Ile Gln Asp Cys Val Ile Arg Ile Phe Ser Glu Ser Lys Asp  
 115 120 125  
 Ser Lys Ala His Gly Ile  
 130

<210> 2367  
 <211> 125  
 <212> PRT  
 <213> Mus musculus

<400> 2367  
 Leu Ala Cys Gln Asp Thr Gly Arg Asn Arg Gly Pro Arg Cys Leu Trp  
 1 5 10 15  
 Pro Glu Pro Ile Ile Leu Val Phe Pro Ala Thr Leu Ile Leu Gly Ser  
 20 25 30  
 Tyr Gly His Ile Ala Lys Ala Val Leu Lys Val Lys Ser Thr Ala Gly  
 35 40 45  
 Arg Arg Lys Ala Phe Gly Thr Cys Gly Ser His Leu Leu Val Val Ser  
 50 55 60  
 Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Lys Ser Ser  
 65 70 75 80  
 Tyr Ser Glu Ser Asp Gly Lys Phe Val Ala Leu Phe Tyr Thr Ile Val  
 85 90 95  
 Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val  
 100 105 110  
 Lys Gly Ala Leu Trp Lys Val Leu Gly Arg Gly Thr Asp  
 115 120 125

<210> 2368  
 <211> 258  
 <212> PRT  
 <213> Mus musculus

<400> 2368  
 Trp Thr Ser Gly Leu Arg Thr Pro Met Tyr Phe Phe Leu Arg Gln Leu

1				5					10					15		
Ala	Leu	Val	Glu	Ile	Cys	Phe	Ser	Leu	Asp	Val	Ala	Pro	Arg	Leu	Leu	
			20					25					30			
Val	Thr	Leu	Leu	Gln	Pro	Gly	Arg	Gly	Val	Ser	Pro	Thr	Ser	Cys	Ala	
		35					40					45				
Leu	Gln	Leu	Leu	Leu	Val	Leu	Ser	Cys	Val	Thr	Ser	Glu	Cys	Phe	Leu	
	50						55				60					
Leu	Met	Val	Met	Ala	Trp	Asp	Arg	Phe	Leu	Ala	Ile	Cys	Arg	Pro	Leu	
65					70					75					80	
Arg	Tyr	Gly	Ala	Ile	Met	Ser	Pro	Gln	Leu	Cys	Tyr	Leu	Leu	Ala	Thr	
				85				90						95		
Thr	Cys	Trp	Leu	Ala	Gly	Ile	Pro	Val	Ala	Leu	Val	Phe	Thr	Ile	Trp	
			100					105					110			
Leu	Phe	Asn	Phe	Pro	Phe	Cys	Gly	Pro	Arg	Gly	Ile	Arg	His	Phe	Phe	
		115					120					125				
Cys	Asp	Ile	Ala	Pro	Leu	Leu	Ser	Leu	Val	Cys	Ala	Asp	Thr	Arg	Val	
	130					135					140					
Phe	Glu	Ala	Asn	Val	Phe	Val	Ala	Thr	Val	Leu	Val	Ile	Met	Val	Pro	
145					150					155					160	
Phe	Cys	Leu	Ile	Ala	Thr	Ser	Tyr	Val	Met	Ile	Leu	Val	Ala	Val	Leu	
				165				170						175		
Arg	Met	Pro	Ser	Ala	Ser	Gly	Arg	His	Lys	Ala	Leu	Ser	Thr	Cys	Ala	
			180					185					190			
Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Thr	Gly	Val	Ile	
		195					200					205				
His	Leu	Arg	Pro	Lys	Ala	Ser	Tyr	Ser	Pro	Glu	Ser	Lys	Gln	Val	Val	
	210					215				220						
Ser	Leu	Ser	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	
225					230					235					240	
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Phe	Gly	Arg	Val	Cys	Cys	
				245				250						255		

Gly Arg

<210> 2369  
 <211> 233  
 <212> PRT  
 <213> Mus musculus

<400> 2369

Pro	Gln	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Val	Leu	Phe	Leu	Ala	Phe	
1				5				10						15		
Asp	Ala	Cys	Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Ile	Leu	Gln	Gly	Met	
			20					25					30			
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	
		35					40					45				
Cys	Asp	Pro	Leu	Arg	His	Thr	Ser	Ile	Leu	Lys	Pro	Ser	Ile	Leu	Gly	
	50					55					60					
Arg	Met	Ile	Val	Val	Val	Val	Ile	Gln	Ala	Val	Val	Leu	Val	Gly	Leu	
65					70					75					80	
Leu	Pro	Ile	Leu	Ile	Lys	Arg	Leu	His	His	Phe	Gln	Ser	Ile	Gln	Ile	
				85				90						95		
Ala	His	Ser	Tyr	Cys	Glu	His	Met	Thr	Val	Val	Lys	Leu	Ala	Ala	Asn	
			100					105					110			
Arg	Val	Gln	Val	Asn	Lys	Ile	Cys	Gly	Leu	Phe	Val	Gly	Leu	Ser	Val	
		115					120					125				
Leu	Gly	Phe	Asp	Met	Phe	Phe	Ile	Leu	Ile	Ser	Tyr	Ala	Leu	Ile	Phe	
	130					135					140					



Ala	Val	Phe	His	Leu	Lys	Gln	Lys	Glu	Ala	Arg	Leu	Lys	Ala	Phe	Asn
145					150					155					160
Thr	Cys	Thr	Ala	His	Ile	Phe	Val	Phe	Leu	Glu	Phe	Tyr	Ile	Leu	Ala
				165					170					175	
Phe	Phe	Ser	Phe	Leu	Ser	His	Arg	Leu	Gly	His	Val	Val	Pro	Ser	Thr
				180				185					190		
His	Ile	Leu	Leu	Ser	Thr	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Ala	Leu	Asn
		195					200					205			
Pro	Ile	Val	Tyr	Gly	Val	Lys	Ser	Met	Val	Ile	Lys	Arg	Val	Ala	Gln
	210					215					220				
Ile	Phe	Phe	Leu	Asp	His	Ala	His	Gln							
225					230										

<210> 2370

<211> 180

<212> PRT

<213> Mus musculus

<400> 2370

Met	Leu	Ser	Ser	Leu	Lys	Thr	Asn	Asn	Val	Thr	Tyr	Leu	Asn	Pro	Gly
1				5					10					15	
Thr	Val	Ile	Leu	Ile	Gly	Ile	Pro	Gly	Leu	Glu	His	Val	Gln	Phe	Trp
			20					25					30		
Ile	Gly	Phe	Pro	Phe	Phe	Thr	Val	Cys	Leu	Val	Ala	Leu	Leu	Gly	Asn
		35					40					45			
Ile	Ile	Leu	Leu	Ile	Ile	Ile	Pro	Ala	Glu	His	Ser	Leu	His	Gln	Pro
	50					55					60				
Met	Tyr	Ile	Phe	Leu	Ala	Val	Leu	Ala	Ala	Thr	Asp	Ile	Gly	Leu	Cys
65				70						75				80	
Ala	Ala	Ile	Ala	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Ala	Tyr
				85					90					95	
Ser	Met	Ala	Phe	Asp	Ala	Cys	Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Thr
			100					105					110		
Leu	Gln	Gly	Met	Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg
		115					120					125			
Tyr	Ile	Ala	Ile	Cys	Asp	Pro	Leu	Arg	His	Thr	Ser	Ile	Leu	Thr	Pro
	130					135					140				
Leu	Leu	Gly	Arg	Met	Ile	Val	Val	Val	Val	Ile	Arg	Ala	Val	Val	Leu
145					150					155					160
Val	Gly	Leu	Leu	Pro	Ile	Val	Ile	Lys	Arg	Leu	His	His	Phe	Arg	Ser
				165					170					175	
Ile	Gln	Ile	Ala												
			180												

<210> 2371

<211> 312

<212> PRT

<213> Mus musculus

<400> 2371

Ile	Glu	Lys	His	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Asp	His	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Ile	Ser	Leu	Ile	Gly	Asn	Leu	Gly	Met	Ile	Ile	Phe
		35					40					45			
Thr	Met	Val	Asn	Ser	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg

50		55		60
His Leu Ala Thr Thr Val Leu Gly Tyr Ser Thr Ala Val Gly Pro Lys				
65		70		80
Met Leu Gln Asn Phe Leu Val Asp Gln Asn Thr Ile Ser Phe His Leu				
	85		90	95
Cys Ala Ile Gln Leu Ser Phe Phe Ser Met Phe Ile Ala Cys Glu Ile				
	100		105	110
Tyr Ile Leu Ser Ala Met Ser Tyr Asp His Tyr Val Ala Ile Cys Lys				
	115		120	125
Pro Leu Phe Tyr Met Val Ile Met Ser Lys Arg Leu Cys Trp Val Leu				
	130		135	140
Val Val Ile Pro Tyr Val Tyr Cys Thr Ile Val Ala Leu Leu Ile Thr				
145		150		160
Ile Lys Ile Phe Thr Leu Ser Phe Cys Gly Ser Asn Val Ile Ser His				
	165		170	175
Phe Tyr Cys Asp Ser Leu Pro Leu Leu Ser Leu Val Cys Ser Asn Thr				
	180		185	190
Gln Glu Ile Glu Val Val Leu Leu Tyr Leu Ser Ala Phe Asn Leu Ile				
	195		200	205
Ser Ser Leu Leu Leu Val Leu Val Ser Tyr Leu Leu Ile Leu Ile Ala				
	210		215	220
Ile Leu Arg Met Asn Ser Ala Glu Gly Arg Arg Lys Ala Phe Ser Thr				
225		230		240
Gly Ser His Leu Thr Met Val Thr Val Phe Tyr Gly Thr Leu Ile Phe				
	245		250	255
Met Tyr Met Gln Pro Lys Ser Asn His Ser Phe Asp Thr Asp Lys Val				
	260		265	270
Ala Ser Ile Phe Tyr Thr Met Val Ile Pro Met Phe Asn Pro Leu Ile				
	275		280	285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Leu Arg Thr Trp				
	290		295	300
Lys Lys Lys Tyr Met Val Phe Phe				
305		310		

<210> 2372

<211> 314

<212> PRT

<213> Mus musculus

<400> 2372

Met Gly Gln Gln Asn Thr Thr Ser Leu Pro Gly Phe Ile Leu Met Gly				
1		5		10
Ile Thr Gln Arg Thr Glu Leu Gln Leu Pro Leu Phe Gly Ala Phe Phe				
	20		25	30
Ile Ile Tyr Ala Val Thr Val Met Gly Asn Leu Gly Met Ile Ile Leu				
	35		40	45
Thr Lys Leu Asp Ser His Leu Glu Thr Pro Met Tyr Phe Phe Ile Arg				
	50		55	60
His Leu Ala Phe Ile Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys				
65		70		80
Met Leu Val Asp Phe Val Met Asn Asp Lys Thr Ile Ser Phe Cys Glu				
	85		90	95
Cys Ala Thr Gln Leu Ser Phe Leu Pro Val Met Phe Ile Ile Thr Glu				
	100		105	110
Phe Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys				
	115		120	125
Asn Pro Leu Leu Tyr Ser Val Ile Met Ser Gln Arg Leu Cys His Val				
	130		135	140

Leu	Val	Gly	Ile	Pro	Tyr	Leu	Tyr	Ser	Thr	Val	Gln	Ala	Leu	Leu	Val
145					150					155					160
Thr	Ser	Arg	Ile	Phe	Thr	Ser	Thr	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Ser
				165					170						175
His	Phe	Tyr	Cys	Asp	Gly	Ile	Phe	Leu	Leu	Pro	Met	Leu	Cys	Ser	Asn
			180					185					190		
Ala	Glu	Glu	Ile	Gln	Leu	Val	Ile	Ser	Phe	Ser	Ala	Leu	Asn	Leu	
		195					200				205				
Ile	Ser	Ser	Phe	Leu	Val	Val	Leu	Gly	Ser	Tyr	Val	Leu	Ile	Leu	Ile
	210					215					220				
Ala	Ile	Cys	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Val	Val	Phe	Tyr	Gly	Thr	Leu
				245					250						255
Phe	Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Thr	Asp	Ser	Leu	Glu	Asn	Asp
			260					265					270		
Lys	Ile	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Tyr	Arg
	290					295					300				
Val	Leu	Lys	Gly	Gln	Phe	Lys	Ile	Asn	Thr						
305					310										

<210> 2373

<211> 305

<212> PRT

<213> Mus musculus

<400> 2373

Met	Glu	Leu	Asn	Arg	Thr	Gln	Leu	Thr	Glu	Phe	Val	Leu	Arg	Gly	Ile
1				5					10					15	
Thr	Asp	Arg	Ser	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Val	Phe	Phe	Leu
			20					25					30		
Ile	Tyr	Val	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Phe	Val	Ile
		35					40					45			
Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Gly	Asn
	50					55					60				
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Asn	Ser	Ser	Ser	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Met	Lys	Phe	Leu	Asn	Lys	Asn	Asp	Met	Ile	Ser	Met	Gly	Glu	Cys
				85					90					95	
Phe	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Ser	Ser	Val	Thr	Ala	Glu	Ala	Phe
			100					105					110		
Ile	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
	115						120					125			
Leu	Leu	Tyr	Val	Val	Val	Met	Ser	Asn	Arg	Leu	Cys	Ile	Gln	Phe	Ile
	130					135					140				
Gly	Val	Ser	Tyr	Leu	Ile	Gly	Leu	Leu	His	Gly	Leu	Leu	His	Val	Gly
145					150					155					160
Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Ser	Ser	Asn	Val	Ile	Asp	His	Phe
				165					170					175	
Tyr	Cys	Asp	Ile	Leu	Pro	Leu	Tyr	Arg	Ile	Ser	Cys	Thr	Asp	Pro	Ser
			180					185					190		
Ile	Asn	Val	Leu	Val	Ala	Phe	Ile	Met	Gly	Ile	Leu	Ile	Gln	Val	Ser
		195					200					205			
Thr	Phe	Met	Ser	Ile	Ile	Val	Ser	Tyr	Val	Arg	Val	Leu	Phe	Ala	Ile
	210					215					220				
Leu	Arg	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Asn	Lys	Ala	Phe	Ser	Thr	Cys

225					230					235				240	
Ser	Ser	His	Leu	Ser	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Ile
				245					250					255	
Ile	Tyr	Val	Leu	Ser	Gly	Ser	Asp	Thr	Asp	Asn	Tyr	Gln	Gly	Lys	Met
			260					265					270		
Tyr	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Arg	Lys	Leu	Arg
	290					295					300				
Glu															
305															

<210> 2374  
 <211> 272  
 <212> PRT  
 <213> Mus musculus

<400> 2374															
Met	Glu	Met	Asp	Asn	Thr	Thr	Leu	Leu	Ile	Gln	Phe	Val	Leu	Ser	Gly
1				5					10					15	
Leu	Val	His	Leu	Pro	Gln	Trp	Lys	Ile	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Thr	Leu
		35					40					45			
Ile	Trp	Asn	Asp	Pro	His	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Ser	Leu	Ala	Phe	Val	Asp	Thr	Trp	Leu	Ser	Ser	Thr	Val	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asp	Ile	Phe	Ala	Lys	Asn	Lys	Met	Ile	Ser	Phe	Ser	Glu
				85					90					95	
Cys	Met	Ile	Gln	Phe	Phe	Ser	Phe	Gly	Ile	Ser	Ala	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr	Asn	Arg	Leu	Cys	Val	Arg	Leu
	130					135					140				
Leu	Thr	Leu	Ser	Phe	Val	Gly	Gly	Phe	Ile	His	Ala	Leu	Ile	His	Glu
145					150					155					160
Gly	Phe	Leu	Phe	Arg	Leu	Ile	Phe	Cys	Ser	Ser	His	Ile	Ile	Asp	His
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Asn	Asp	Pro
			180					185					190		
Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
		195					200					205			
Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser
	210					215					220				
Ile	Leu	Lys	Gln	Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met
			260					265					270		

<210> 2375  
 <211> 156  
 <212> PRT  
 <213> Mus musculus

<400> 2375

Leu	Met	His	Thr	Leu	Leu	Ala	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn
1				5					10					15	
Val	Ile	Leu	Asn	Phe	Phe	Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala
			20					25					30		
Cys	Ser	Asp	Thr	Tyr	Val	Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Ser	Ser
		35					40					45			
Leu	Leu	Ile	Val	Ile	Pro	Phe	Phe	Leu	Ile	Val	Met	Ser	Tyr	Ala	Arg
	50					55					60				
Ile	Ile	Ala	Ser	Ile	Leu	Lys	Val	Pro	Ser	Ile	Gln	Gly	Ile	Tyr	Lys
65					70				75						80
Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr
				85					90					95	
Gly	Thr	Ile	Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr
			100					105					110		
Val	Lys	Gly	Thr	Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met
		115					120					125			
Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala
	130					135					140				
Leu	Ile	Arg	Val	Ile	Cys	Ser	Lys	Lys	Ile	Ser	Leu				
145					150					155					

<210> 2376

<211> 152

<212> PRT

<213> Mus musculus

<400> 2376

Met	Asp	Tyr	Leu	Asn	Thr	Ser	Ser	Glu	Glu	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	His	Leu	Glu	Pro	Ile	Leu	Phe	Ala	Phe	Ile	Ser
			20					25					30		
Met	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Val	Ile	Ile	Ile	Leu
		35					40					45			
Ser	Gln	Leu	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Ala	Ser	Thr	Val	Pro	Gln
65					70				75						80
Leu	Leu	Val	Asn	Leu	Ser	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Phe	Gly	Arg
			85					90						95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Met	Leu	Ser	Leu	Gly	Gly	Ile	Glu	Cys
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
	115						120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Arg	Ala	Leu
	130					135						140			
Val	Val	Phe	Ser	Trp	Val	Gly	Gly								
145					150										

<210> 2377

<211> 191

<212> PRT

<213> Mus musculus

<400> 2377

Met Ala Leu Arg Asn Ala Ser Ser Val Lys Glu Phe Ile Leu Leu Gly



<210> 2379  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2379  
 Ser His Lys Val Cys Trp Leu Leu Val Thr Met Thr Tyr Leu Tyr Cys  
 1 5 10 15  
 Thr Phe Met Ser Leu Val Val Thr Ile Asn Ile Phe Ser Leu Ser Phe  
 20 25 30  
 Cys Gly Tyr Asn Val Ile Asn His Phe Phe Cys Asp Cys Ile Pro Leu  
 35 40 45  
 Ile Ser Leu Leu Cys Ser Asn Thr Gln Glu Val Glu Leu Ile Val Met  
 50 55 60  
 Phe Phe Ala Ala Phe Asp Leu Ile Ser Ser Leu Val Val Val Leu Met  
 65 70 75 80  
 Tyr Tyr Leu Leu Ile Phe Ile Ala Val Leu Arg Met Asn Ser Ala Glu  
 85 90 95  
 Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val  
 100 105 110  
 Thr Leu Phe Tyr Gly Thr Leu Ile Phe Met Tyr Val Lys Pro Val Ser  
 115 120 125  
 Ser His Ser Ile Asp Thr Glu Lys Ile Ser Ser Ile Leu Tyr Thr Leu  
 130 135 140  
 Ile Ile Pro Leu Leu Asn Pro Leu Val Tyr Ser Leu Arg Asn Lys Asp  
 145 150 155 160  
 Val Lys Glu Ala Leu Gln Arg Thr Cys Gln Lys Ile Phe Asn Thr Phe  
 165 170 175  
 Ser

<210> 2380  
 <211> 129  
 <212> PRT  
 <213> Mus musculus

<400> 2380  
 Leu Asn Gln Leu Ser Gln Leu Thr Cys Ser Asp Ser Phe Ser Ser Gln  
 1 5 10 15  
 Leu Ile Met Asn Leu Val Pro Val Leu Leu Ala Val Ile Ser Phe Ser  
 20 25 30  
 Ser Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser Ile Cys Ser Ile  
 35 40 45  
 Ser Ser Val Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Val Ser His  
 50 55 60  
 Leu Ser Ile Val Ser Leu Phe Tyr Ser Thr Gly Leu Gly Val Tyr Val  
 65 70 75 80  
 Ser Ser Val Val Ile Gln Ser Ser His Ser Ala Ala Arg Ala Ser Val  
 85 90 95  
 Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu  
 100 105 110  
 Arg Asn Lys Asp Val Lys Lys Ala Val Glu Arg Leu Leu Glu Gly Lys  
 115 120 125  
 Leu

<210> 2381  
 <211> 168  
 <212> PRT  
 <213> Mus musculus

<400> 2381  
 Met Ala Lys Asn Asn Ala Thr Thr Ile Asn Gly Phe Ile Leu Met Gly  
 1 5 10 15  
 Phe Ser Asp His Pro Lys Glu Ile Pro Leu Leu Leu Val Phe Leu Ser  
 20 25 30  
 Phe Tyr Leu Val Thr Met Leu Gly Asn Leu Gly Met Val Ile Phe Ile  
 35 40 45  
 His Val Asp Val Gln Leu His Ile Pro Met Tyr Phe Phe Leu Ser His  
 50 55 60  
 Leu Ser Val Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln Ile  
 65 70 75 80  
 Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly Cys Cys  
 85 90 95  
 Ala Thr Gln Phe Phe Phe Phe Thr Ile Tyr Ala Gly Thr Glu Cys Phe  
 100 105 110  
 Thr Asn Thr Phe Ser Leu Ser Phe Cys Glu Asn Gln Ser Ile Phe Phe  
 115 120 125  
 Phe Phe Tyr Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr  
 130 135 140  
 Ile Asn Met Val Glu Ile Ile Ile Val Phe Phe Gly Asn Phe Val Ile  
 145 150 155 160  
 Leu Ala Asn Tyr Cys Val Pro Leu  
 165

<210> 2382  
 <211> 109  
 <212> PRT  
 <213> Mus musculus

<400> 2382  
 Leu Val Leu Ala Phe His Ser Gln Tyr Arg Ser His Leu Ile Leu Tyr  
 1 5 10 15  
 Leu Leu Ile Ile Arg Val Val Met Arg Met Lys Ser Ser Gly Arg Arg  
 20 25 30  
 Ala Lys Thr Phe Ser Thr Cys Val Ser His Leu Thr Ala Val Ala Leu  
 35 40 45  
 Leu Leu Gly Thr Leu Gly Phe Met Tyr Ile Arg Ser Gly Ser Glu Asp  
 50 55 60  
 Lys Gly Met Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro  
 65 70 75 80  
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Lys Lys  
 85 90 95  
 Ile Thr Gly Lys Cys Gln Phe Ser His Ser Thr Gln His  
 100 105

<210> 2383  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2383



Arg	Tyr	Val	Ala	Ile	Cys	Thr	Pro	Leu	Arg	Tyr	Ala	Ile	Ile	Ile	Thr
1				5					10					15	
Pro	Lys	Leu	Cys	Thr	Gln	Leu	Ser	Thr	Gly	Ser	Phe	Thr	Leu	Gly	Phe
		20						25					30		
Leu	Met	Leu	Leu	Pro	Glu	Ile	Val	Trp	Ile	Ser	Thr	Leu	Pro	Phe	Cys
	35						40					45			
Gly	Pro	Asn	Gln	Ile	His	Gln	Leu	Phe	Cys	Asp	Leu	Glu	Pro	Met	Leu
	50					55					60				
Leu	Leu	Ala	Cys	Thr	Asp	Thr	Ser	Met	Ile	Leu	Val	Glu	Asp	Val	Ile
65					70					75					80
His	Ala	Ile	Ser	Ile	Leu	Ser	Cys	Val	Ser	Ile	Ile	Ser	Leu	Ser	Tyr
			85						90					95	
Leu	Arg	Ile	Ile	Thr	Val	Val	Leu	Lys	Ile	Pro	Ser	Gly	Glu	Ser	Arg
			100					105					110		
Gln	Lys	Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Ile	Thr	Ile	Phe	Val	Leu
		115					120					125			
Phe	Phe	Gly	Ser	Val	Ala	Leu	Met	Tyr	Leu	Arg	Phe	Ser	Val	Thr	Phe
	130					135					140				
Gln	Pro	Leu	Leu	Glu	Lys	Val	Ile	Ala	Leu	Met	Phe	Ala	Val	Leu	Ala
145					150					155					160
Pro	Phe	Phe	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys
			165						170					175	
Asp	Ala	Ile	Lys	Lys	Met	Phe	Gly	Ser	Gln	Lys	Ile	Leu	Thr	Val	Ser
		180						185					190		
Gly	Ser														

<210> 2384

<211> 164

<212> PRT

<213> Mus musculus

<400> 2384

Met	Thr	Ala	Arg	Asn	Met	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Val	Gly
1				5				10						15	
Phe	Ser	Asp	Asn	His	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
		20						25					30		
Val	Thr	Tyr	Leu	Leu	Gly	Ser	Ala	Gly	Asn	Phe	Ile	Ile	Ile	Thr	Ile
	35						40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Ile	Pro	Gln
65					70					75					80
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Ala	Gln
			85						90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Ala	Ser	Phe	Ala	Trp	Gly	Glu	Leu
		100						105					110		
Gly	Thr	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
	115						120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
	130					135					140				
Val	Ala	Ala	Val	Trp	Leu	Ser	Gly	Arg	Tyr	Leu	Gly	Thr	Leu	Phe	Thr
145					150					155					160
Ala	Ser	Thr	Leu												

<210> 2385

<211> 106  
 <212> PRT  
 <213> Mus musculus

<400> 2385  
 Leu Tyr Gly Gly Ile Asn Phe Leu Leu Thr Leu Leu Ser Tyr Gly Cys  
 1 5 10 15  
 Ile Ile Ala Ser Ile Leu His Met Arg Ser Ala Glu Gly Lys Arg Lys  
 20 25 30  
 Ala Phe Ser Thr Cys Ser Ser His Leu Ile Val Val Ser Val Tyr Tyr  
 35 40 45  
 Ser Ser Leu Phe Cys Ala Tyr Ile Ser Pro Ala Ser Ser Tyr Ser Pro  
 50 55 60  
 Glu Arg Ser Lys Phe Thr Ser Phe Phe Tyr Ser Val Leu Ser Pro Thr  
 65 70 75 80  
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Leu Ala  
 85 90 95  
 Leu Arg Arg Leu Leu Pro Ser Leu Ser Asn  
 100 105

<210> 2386  
 <211> 302  
 <212> PRT  
 <213> Mus musculus

<400> 2386  
 Glu Lys Lys Asn His Thr Val Val Ser Glu Phe Leu Phe Gln Gly Phe  
 1 5 10 15  
 Ser Ser Phe Gln Glu Tyr Lys Phe Thr Leu Phe Met Val Phe Leu Thr  
 20 25 30  
 Leu Tyr Leu Leu Thr Leu Thr Ser Asn Ala Ile Ile Met Ile Ile Ile  
 35 40 45  
 Gly Ile Glu Cys His Arg His Thr Pro Met Tyr Phe Phe Leu Ser Met  
 50 55 60  
 Ile Ser Thr Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro Ser Met  
 65 70 75 80  
 Leu Ala Ser Leu Val Gly Ser Ser Gln Ser Ile Ser Leu Ala Gly Cys  
 85 90 95  
 Ala Thr Gln Met Phe Val Phe Ile Thr Leu Ala Ile Asn Asn Cys Phe  
 100 105 110  
 Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
 115 120 125  
 Leu Arg Ser Ser Val Ile Met Asn Lys Arg Val Cys Ala Gln Leu Val  
 130 135 140  
 Trp Gly Ser Cys Asn Ile Gly Leu Gln Ile Ala Ser Val Phe Arg Ala  
 145 150 155 160  
 Pro Phe Cys Asp Arg Glu Val Ala His Tyr Phe Cys Asp Pro Val Met  
 165 170 175  
 Lys Leu Ser Cys Ala Asp Thr Thr Leu His Asp Ile Val Asn Phe Ile  
 180 185 190  
 Ile Ser Ser Leu Val Ile Val Val Pro Met Gly Leu Val Phe Ile Ser  
 195 200 205  
 Tyr Ile Leu Ile Ile Ser Thr Ile Leu Lys Ile Ala Ser Ala Glu Gly  
 210 215 220  
 Arg Lys Lys Ala Phe Ala Thr Cys Ala Ser His Leu Thr Val Val Ile  
 225 230 235 240  
 Ile His Tyr Gly Cys Ala Ser Ile Ala Tyr Leu Lys Pro Lys Ser Glu  
 245 250 255

Asn	Thr	Arg	Asp	Gln	Asp	Gln	Leu	Ile	Ser	Val	Thr	Tyr	Thr	Val	Phe
			260					265					270		
Asn	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val
		275					280					285			
Lys	Asp	Ala	Ile	Tyr	Arg	Ala	Ile	Gly	Lys	Lys	Pro	Phe	Ala		
	290					295					300				

<210> 2387  
 <211> 238  
 <212> PRT  
 <213> Mus musculus

<400> 2387

Met	Glu	Pro	Tyr	Asn	Leu	Thr	Gly	Thr	Leu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Leu	Ile	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Met	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Ser	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
	50					55					60				
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Leu	His	Ala	His	Asn	Arg	Ser	Ile	Thr	Tyr	Ala	Glu
			85						90					95	
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Phe	Leu	Phe	Gly	Gly	Met	Asp	Ser
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Tyr	Tyr	Gln	Val	Ile	Leu	Ser	Pro	Cys	Leu	Cys	Arg	Cys	Leu
	130					135					140				
Val	Ile	Val	Ser	Leu	Phe	Ile	Ser	Leu	Val	Ser	Ser	Gln	Val	His	Cys
145					150					155					160
Leu	Leu	Val	Ser	Gln	Leu	Thr	Phe	Cys	Ile	Asn	Val	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Val	Lys	Leu	Ala	Cys	Ser	Asn	Thr
			180					185					190		
Thr	Ile	Ser	Asp	Ile	Val	Ile	Phe	Leu	Leu	Gly	Ile	Ile	Leu	Gly	Phe
		195					200					205			
Leu	Pro	Ala	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Thr	Ser	Ser
	210					215					220				
Ile	Phe	Arg	Val	Pro	Ser	Leu	Leu	Gly	Lys	Tyr	Lys	Ala	Phe		
225					230					235					

<210> 2388  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (186)...(208)  
 <223> Any amino acid

<400> 2388

Met	Arg	Gly	Asp	Asn	His	Ser	Cys	Phe	Trp	Asp	Thr	Pro	Lys	Asp	Phe
1				5					10					15	

Ile	Leu	Leu	Gly	Ile	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Val	Phe
			20					25					30		
Ala	Val	Leu	Leu	Val	Phe	Tyr	Ile	Leu	Ala	Met	Leu	Gly	Asn	Ile	Ser
		35					40					45			
Ile	Ile	Leu	Val	Ser	Gln	Leu	Asp	Pro	Gln	Leu	His	Ser	Pro	Met	Tyr
	50					55					60				
Ile	Phe	Leu	Ser	His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Thr
65					70					75					80
Thr	Val	Pro	Gln	Met	Leu	Phe	Asn	Met	Gly	Ser	Ser	Gln	Lys	Thr	Ile
				85					90					95	
Ser	Tyr	Gly	Gly	Cys	Thr	Val	Gln	Tyr	Ala	Ile	Phe	His	Trp	Leu	Gly
			100					105					110		
Cys	Thr	Glu	Cys	Val	Val	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Glu	Pro	Leu	Arg	Tyr	Ala	Ile	Ile	Met	His	Arg	Pro	Leu
	130					135					140				
Cys	Gln	Gln	Leu	Val	Ala	Met	Ala	Trp	Leu	Ser	Gly	Phe	Gly	Asn	Ser
145					150					155					160
Leu	Val	Gln	Val	Ile	Leu	Thr	Val	Gln	Leu	Pro	Phe	Cys	Gly	Arg	Gln
				165					170					175	
Val	Leu	Asn	Asn	Phe	Phe	Cys	Glu	Val	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180					185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Gly	Arg	His	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val
	210					215					220				
Ser	Leu	Phe	Tyr	Leu	Pro	Ala	Ile	Tyr	Met	Tyr	Leu	Gln	Pro	Pro	Ser
225					230					235					240
Ser	Tyr	Ser	Gln	Glu	Gln	Gly	Lys	Phe	Ile	Ser	Leu	Phe	Tyr	Ser	Ile
				245					250					255	
Ile	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp
			260					265					270		
Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu	Leu	Ala	Arg	Thr	Gly	Arg	Leu	Cys
		275					280					285			
Gly	Arg														
	290														

<210> 2389

<211> 250

<212> PRT

<213> Mus musculus

<400> 2389

Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser	Ser	Ser	Ile	Ser	Pro	Arg	Ile
1				5					10					15	
Leu	Ser	Asp	Phe	Leu	Lys	Thr	Glu	Lys	Thr	Ile	Ser	Phe	Ile	Ala	Cys
			20					25					30		
Ala	Thr	Gln	Asn	Phe	Val	Leu	Ala	Trp	Met	Gly	Ala	Ser	Glu	Cys	Cys
		35					40					45			
Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Gly	Ser	Pro
	50					55				60					
Leu	Gln	Tyr	Ser	Ala	Ile	Met	Ala	Pro	Ser	Leu	Cys	Trp	Arg	Met	Val
65					70					75					80
Ala	Gly	Val	Tyr	Gly	Ser	Gly	Phe	Phe	Ile	Ser	Phe	Val	Gln	Gln	Ser
				85					90					95	
Ala	Cys	Phe	Asn	Leu	Tyr	Tyr	Cys	Gly	Pro	Asn	Val	Ile	Arg	His	Phe
			100					105					110		
Phe	Cys	Asp	Ile	Pro	Gln	Ile	Ile	Pro	Leu	Ser	Cys	Ser	Asp	Pro	Phe

		115					120				125						
Ile	Ser	Gln	Leu	Val	Leu	Phe	Leu	Ala	Ala	Leu	Phe	Val	Gly	Phe	Gly		
	130					135					140						
Ser	Phe	Leu	Val	Ile	Ile	Phe	Ser	Tyr	Val	Phe	Ile	Ala	Val	Ser	Ile		
145					150					155					160		
Leu	Lys	Val	Ala	Ser	Phe	Glu	Gly	Arg	Val	Lys	Ala	Phe	Lys	Thr	Cys		
				165					170					175			
Gly	Ser	His	Leu	Ala	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Gly	Leu	Ser		
			180					185					190				
Val	Tyr	Met	His	His	Ser	Ser	Gln	His	Ser	Thr	Lys	Gln	Asp	Lys	Val		
	195						200					205					
Leu	Ser	Val	Val	Tyr	Thr	Ile	Leu	Ile	Pro	Met	Val	Asn	Pro	Leu	Ile		
	210					215					220						
Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Ile	Lys	Glu	Ala	Leu	Lys	Arg	Val	Leu		
225					230					235					240		
Lys	Lys	Ala	Ala	His	Leu	Pro	Gln	Lys	Ala								
				245					250								

<210> 2390

<211> 301

<212> PRT

<213> Mus musculus

<400> 2390

Met	Trp	Pro	Ser	Val	Ile	Ala	Ile	Tyr	Leu	Phe	Gly	Trp	Asp	Ser	Gln		
1				5					10					15			
Val	Ser	Arg	Asp	Phe	Lys	Thr	Val	Phe	Leu	Phe	Pro	Val	Leu	Thr	Tyr		
			20					25					30				
Met	Leu	Ser	Ile	Gly	Gly	Asn	Gln	Asn	Thr	Asp	Ala	Phe	Thr	Leu	His		
		35				40						45					
Glu	Ser	His	Phe	Gln	Val	Pro	Met	His	Phe	Val	Phe	Arg	Ser	Phe	Ser		
		50				55					60						
Phe	Leu	Glu	Ile	Ser	Leu	Thr	Ser	Thr	Phe	Ile	Pro	Gln	Leu	Leu	Phe		
65					70					75					80		
Ser	Val	Ser	Thr	Gly	Ile	Lys	Thr	Ile	Ser	Phe	Val	Gly	Cys	Phe	Ile		
				85					90					95			
Ala	Ile	Phe	Phe	Gly	Thr	Thr	Glu	Ile	Trp	Thr	Leu	Thr	Ser	Met	Thr		
			100					105					110				
Cys	Asp	Tyr	Tyr	Ile	Ala	Thr	Ser	Gln	Ser	Leu	His	Tyr	Ala	Thr	Ile		
		115					120					125					
Met	Ser	Asn	Arg	Val	Cys	Thr	Leu	Leu	Ile	Pro	Cys	Ser	Cys	Leu	Ser		
	130					135					140						
Cys	Phe	Leu	Ile	Ile	Phe	Leu	Pro	Ile	Ile	Leu	Thr	Ser	Gln	Leu	Asp		
145					150					155					160		
Phe	Cys	Ala	Ser	Asn	Val	Leu	Lys	His	His	Cys	Cys	Asp	Tyr	Gly	Thr		
				165					170					175			
Leu	Ile	Glu	Ile	Ala	Cys	Ser	Ser	Thr	Arg	Leu	Met	Glu	Leu	Phe	Val		
			180					185					190				
Phe	Phe	Leu	Val	Ile	Met	Thr	Leu	Arg	Val	Ala	Met	Val	Leu	Val	Ala		
		195					200					205					
Leu	Ser	Tyr	Met	Cys	Ser	Ile	Arg	Thr	Ile	Pro	Lys	Ile	Pro	Ser	Ala		
	210					215					220						
Gln	Arg	Lys	Lys	Ala	Phe	Cys	Ser	Ser	His	Thr	Leu	Val	Ile	Ser	Ile		
225					230					235					240		
Ser	Tyr	Arg	Ser	Cys	Ile	Phe	Met	Cys	Ile	Lys	Pro	Ser	Ser	Arg	Gly		
				245					250					255			
Val	Val	Leu	Ser	Lys	Gly	Met	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro		
			260					265						270			

Leu	Leu	Asp	Leu	Phe	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Gln	Leu	Lys	Lys
		275					280					285			
Ser	Phe	Asn	Asp	Ile	Thr	Arg	Lys	Thr	Val	Ile	Leu	Gln			
	290					295					300				

<210> 2391  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<400> 2391

Phe	Thr	Glu	Val	Ile	Glu	Phe	Val	Phe	Leu	Gly	Phe	Ser	Ser	Phe	Gly
1				5					10					15	
Lys	His	Gln	Ile	Thr	Leu	Phe	Val	Val	Phe	Leu	Thr	Ile	Tyr	Ile	Leu
			20					25				30			
Thr	Leu	Ala	Gly	Asn	Ile	Ile	Ile	Val	Thr	Ile	Thr	His	Ile	Asp	His
		35					40					45			
His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Met	Leu	Ala	Ser	Ser
	50					55					60				
Glu	Thr	Val	Tyr	Thr	Leu	Val	Ile	Val	Pro	Arg	Met	Leu	Ser	Ser	Leu
65					70					75					80
Ile	Phe	Tyr	Asn	Leu	Pro	Ile	Ser	Leu	Ala	Gly	Cys	Ala	Thr	Gln	Met
				85					90					95	
Phe	Phe	Phe	Val	Thr	Leu	Ala	Thr	Asn	Asn	Cys	Phe	Leu	Leu	Thr	Ala
			100					105						110	
Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Thr
		115					120					125			
Ile	Ile	Met	Ser	Lys	Gly	Met	Cys	Ala	Leu	Leu	Val	Cys	Gly	Ser	Leu
	130					135					140				
Gly	Thr	Gly	Leu	Val	Met	Ala	Val	Leu	His	Val	Pro	Ala	Met	Phe	His
145					150					155					160
Leu	Pro	Phe	Cys	Gly	Thr	Val	Val	Glu	His	Phe	Phe	Cys	Asp	Ile	Tyr
				165					170					175	
Pro	Val	Met	Lys	Leu	Ser	Cys	Val	Asp	Thr	Thr	Val	Asn	Glu	Ile	Ile
			180					185					190		
Asn	Tyr	Gly	Val	Ser	Ser	Phe	Val	Ile	Leu	Val	Pro	Ile	Gly	Leu	Ile
		195					200					205			
Phe	Ile	Ser	Tyr	Val	Leu	Ile	Val	Ser	Ser	Ile	Leu	Lys	Ile	Val	Ser
	210					215					220				
Thr	Glu	Gly	Gln	Lys	Lys	Ala	Phe	Ala	Thr	Cys	Ala	Ser	His	Leu	Thr
225					230					235					240
Val	Val	Ile	Val	His	Tyr	Gly	Cys	Ala	Ser	Ile	Ala	Tyr	Leu	Lys	Pro
				245					250					255	
Lys	Ser	Glu	Ser	Ser	Val	Glu	Lys	Asp	Leu	Leu	Leu	Ser	Val	Thr	Tyr
			260					265					270		
Thr	Ile	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn
		275					280					285			
Lys	Glu	Val	Lys	Asp	Ala	Leu	Cys	Arg	Ala	Val	Gly	Arg	Asn	Thr	Ser
	290					295					300				

<210> 2392  
 <211> 160  
 <212> PRT  
 <213> Mus musculus

<400> 2392

Ile	Val	Ser	Leu	Leu	Val	Asn	Ile	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10					15			
Gly	Tyr	Asn	Val	Ile	Arg	His	Phe	Tyr	Cys	Asp	Ala	Leu	Pro	Leu	Leu		
			20					25					30				
Thr	Leu	Ala	Cys	Ser	Asn	Thr	His	Glu	Ile	Glu	Ala	Ile	Ile	Leu	Ile		
		35					40					45					
Phe	Ser	Ala	Phe	Asn	Leu	Leu	Ser	Ser	Leu	Leu	Ile	Val	Ile	Gly	Ser		
	50					55					60						
Tyr	Leu	Leu	Ile	Leu	Met	Ala	Ile	Leu	Arg	Ile	Asn	Ser	Ala	Glu	Gly		
65					70					75					80		
Lys	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ile		
			85					90						95			
Val	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Gln	Pro	Thr	Phe	Thr		
			100					105					110				
His	Ser	Ile	Asp	Thr	Gly	Lys	Val	Ile	Ser	Ile	Phe	Tyr	Thr	Gln	Val		
		115					120					125					
Ile	Pro	Met	Leu	Asn	Pro	Leu	Thr	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val		
	130					135					140						
Lys	Asp	Val	Leu	Lys	Lys	Pro	Met	Glu	Lys	Val	His	Asn	Leu	Phe	Ser		
145					150					155					160		

<210> 2393

<211> 115

<212> PRT

<213> Mus musculus

<400> 2393

Ile	Leu	Ile	Phe	Ser	Ala	Phe	Asn	Leu	Leu	Ser	Ser	Leu	Leu	Ile	Val		
1				5					10					15			
Ile	Gly	Ser	Tyr	Leu	Leu	Ile	Leu	Met	Thr	Ile	Leu	Arg	Ile	Asn	Ser		
			20					25				30					
Ala	Lys	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr		
		35					40				45						
Val	Val	Ile	Val	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Gln	Pro		
	50					55					60						
Thr	Ser	Thr	His	Ser	Ile	Asn	Thr	Val	Lys	Val	Thr	Ser	Ile	Phe	Tyr		
65					70					75					80		
Thr	Gln	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn		
			85					90						95			
Lys	Asp	Val	Lys	Asp	Val	Leu	Lys	Lys	Thr	Lys	Glu	Lys	Val	Tyr	Asn		
			100					105					110				
Leu	Val	Ser															
		115															

<210> 2394

<211> 242

<212> PRT

<213> Mus musculus

<400> 2394

Met	Glu	Asp	Met	Ala	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Glu	Phe	Phe		
1				5					10					15			
Leu	Ala	Gly	Leu	Ser	Glu	Lys	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu		
		20						25				30					
Leu	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Met	Ala	Gly	Asn	Leu	Gly	Met		
		35					40				45						
Ile	Thr	Leu	Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr		
	50					55					60						





<210> 2396  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2396  
 Met Ala Ser His Asn Phe Thr Met Val Thr Glu Phe Ile Leu Val Ala  
 1 5 10 15  
 Asn Thr Asp Cys Pro Glu Leu Gln Val Pro Leu Phe Gly Leu Phe Pro  
 20 25 30  
 Ile Ile Tyr Leu Ile Ile Leu Val Gly Asn Leu Gly Met Ile Ile Leu  
 35 40 45  
 Thr Met Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg  
 50 55 60  
 His Leu Ala Thr Thr Tyr Ser Thr Ala Val Gly Pro Lys Met Leu Arg  
 65 70 75 80  
 Asn Phe Leu Val Glu Gln Asn Lys Lys Leu Phe Tyr Asp Cys Ala Phe  
 85 90 95  
 Gln Ser Ser Phe Phe Ser Ser Leu Leu Val Asn Phe Phe Ile Leu Tyr  
 100 105 110  
 Ala Ile Phe Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu Asn Tyr  
 115 120 125  
 Asn Val Ile Met Ser Gln Arg Leu Cys Trp Ile Leu Val Ala Val Pro  
 130 135 140  
 Tyr Leu Tyr Ser Ile Phe Val Ala Leu Ile Val Thr Ile Asn Ile Phe  
 145 150 155 160  
 Pro Ser Ser Phe Cys Gly Pro Asn Ile Ile Asn His Phe Phe Tyr Asn  
 165 170 175  
 Gly

<210> 2397  
 <211> 215  
 <212> PRT  
 <213> Mus musculus

<400> 2397  
 Met Phe Phe Val Ala Ser Met Met Gly Asn Ser Leu Ile Val Phe Thr  
 1 5 10 15  
 Val Ala Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 20 25 30  
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Ser Ser Pro Lys  
 35 40 45  
 Met Leu Tyr Asp Leu Phe Arg Lys His Lys Val Ile Ser Phe Thr Gly  
 50 55 60  
 Cys Val Thr Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met  
 65 70 75 80  
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys  
 85 90 95  
 Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Thr Cys Ile Leu Phe  
 100 105 110  
 Ser Val Thr Ala Trp Val Val Gly Leu Met His Ser Leu Ile Gln Leu  
 115 120 125  
 Ala Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser  
 130 135 140  
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Asp Thr  
 145 150 155 160

Asn	Gln	Leu	Glu	Phe	Met	Val	Thr	Val	Asn	Ser	Gly	Phe	Ile	Ser	Val
				165					170					175	
Gly	Ser	Phe	Phe	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Ile	Ile	Ser
			180					185					190		
Val	Gln	Lys	His	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu
		195					200					205			
Ser	Ala	His	Ile	Thr	Val	Val									
	210					215									

<210> 2398  
 <211> 158  
 <212> PRT  
 <213> Mus musculus

<400> 2398

Met	Pro	Ser	Arg	Ser	Val	Leu	Gly	Asp	Gly	Asn	His	Thr	Ser	Val	Ala
1				5					10					15	
Met	Phe	Val	Leu	Leu	Gly	Leu	Leu	Asp	Gln	Ala	Glu	Leu	Gln	Leu	Ile
			20					25					30		
Leu	Phe	Pro	Val	Phe	Leu	Gly	Thr	Tyr	Leu	Ile	Thr	Leu	Ile	Trp	Asn
		35					40					45			
Leu	Gly	Leu	Ile	Ile	Leu	Ile	Arg	Met	Asp	Ser	His	Leu	Gln	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ser	Phe	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser
65					70					75					80
Ser	Ser	Ile	Ser	Pro	Arg	Met	Leu	Ser	Asp	Phe	Leu	Lys	Ala	Glu	Lys
				85					90					95	
Thr	Ile	Ser	Phe	Ile	Ala	Cys	Ala	Thr	Gln	Tyr	Phe	Val	Met	Ala	Trp
			100					105					110		
Met	Gly	Ala	Ser	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Gly	Ser	Pro	Leu	Gln	Tyr	Ser	Val	Ile	Met	Ala	Pro
	130					135					140				
Ser	Leu	Cys	Trp	Arg	Met	Val	Ala	Gly	Val	Tyr	Arg	Ser	Gly		
145					150					155					

<210> 2399  
 <211> 139  
 <212> PRT  
 <213> Mus musculus

<400> 2399

Met	Pro	Ser	Ile	Ser	Val	Leu	Gly	Asp	Gly	Asn	His	Thr	Ser	Val	Ala
1				5					10					15	
Met	Phe	Val	Leu	Leu	Gly	Leu	Leu	Asp	Gln	Ala	Glu	Leu	Gln	Leu	Ile
			20					25					30		
Leu	Phe	Pro	Val	Phe	Leu	Gly	Thr	Tyr	Leu	Ile	Thr	Leu	Ile	Trp	Asn
		35					40					45			
Leu	Gly	Leu	Ile	Ile	Leu	Ile	Arg	Met	Asp	Ser	His	Leu	Gln	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ser	Phe	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser
65					70					75					80
Ser	Ser	Ile	Ser	Pro	Arg	Met	Leu	Ser	Asp	Phe	Leu	Lys	Thr	Glu	Lys
				85					90					95	
Thr	Ile	Ser	Phe	Ile	Ala	Cys	Ala	Thr	Gln	Asn	Phe	Val	Leu	Asp	Trp
			100					105					110		
Met	Gly	Thr	Ser	Glu	Cys	Cys	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg

	115		120		125
Tyr	Val	Ala	Ile	Gly	Ser
	130		135		

<210> 2400  
 <211> 157  
 <212> PRT  
 <213> Mus musculus

<400> 2400

Arg	Thr	Lys	Asn	His	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly	Ile
1				5					10					15	
Thr	Asp	His	Pro	Asp	Leu	Gln	Pro	Ser	Leu	Phe	Gly	Leu	Phe	Leu	Leu
			20					25					30		
Ile	Tyr	Leu	Ile	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu	Thr
		35					40					45			
Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Gln
		50				55					60				
Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys	Met
65					70					75					80
Leu	Thr	Asn	Phe	Ile	Val	Asp	Gln	Asn	Arg	Ile	Phe	Phe	Asn	Leu	Cys
			85						90					95	
Thr	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Ala	Cys	Glu	Leu	Phe
			100					105					110		
Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Phe	Tyr	Met	Val	Ile	Met	Ser	Lys	Arg	Leu	Cys	Trp	Val	Leu	Val
	130					135					140				
Val	Met	Pro	Leu	Cys	Leu	Leu	Tyr	Asn	Cys	Gly	Cys	Phe			
145					150					155					

<210> 2401  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2401

Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro
1				5					10					15	
Leu	His	Tyr	Pro	Ser	Leu	Met	Thr	Gly	Arg	Leu	Arg	Asn	Thr	Leu	Val
			20					25					30		
Thr	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe	Pro	Val	Pro	Ile	Ile
		35				40					45				
Ile	Ile	Ser	Gln	Met	Ser	Phe	Cys	Gly	Ser	Arg	Ile	Ile	Asp	His	Phe
	50					55					60				
Leu	Cys	Asp	Pro	Gly	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Arg	Val	Pro
65					70					75					80
Leu	Ile	Glu	Val	Phe	Trp	Ser	Ile	Ile	Met	Ser	Met	Leu	Leu	Val	Ile
			85						90					95	
Pro	Phe	Leu	Phe	Ile	Met	Gly	Thr	Tyr	Ile	Leu	Val	Leu	Arg	Ala	Val
			100					105					110		
Phe	Arg	Leu	Pro	Ser	Arg	Glu	Gly	Gln	Lys	Lys	Ala	Phe	Ser	Thr	Cys
		115					120					125			
Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Cys	Ser	Val	Met	Ile
	130					135					140				
Met	Tyr	Leu	Ser	Pro	Thr	Ser	Glu	His	Glu	Ala	Gly	Met	Gln	Lys	Leu
145					150					155					160

Val	Thr	Leu	Phe	Tyr	Ser	Val	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Met	Ile	
				165					170					175		
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Asn	Ala	Leu	Gln	Lys	Ile	Leu	
			180					185					190			
Arg	Thr															

<210> 2402  
 <211> 179  
 <212> PRT  
 <213> Mus musculus

<400> 2402

Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	
1				5					10					15		
Pro	Leu	Leu	Tyr	Pro	Val	Met	Met	Ser	Asn	Ser	Leu	Cys	Met	Lys	Phe	
			20					25					30			
Ile	His	Val	Ser	Tyr	Ile	Val	Gly	Phe	Leu	His	Ser	Ala	Ile	His	Val	
		35					40					45				
Gly	Leu	Leu	Val	Arg	Leu	Asn	Phe	Cys	Lys	Ser	Asn	Ile	Ile	His	Tyr	
	50					55					60					
Phe	Tyr	Cys	Glu	Ile	Leu	Gln	Leu	Phe	Lys	Ile	Ser	Cys	Ile	Asn	Pro	
65					70					75					80	
Thr	Met	Asn	Val	Leu	Leu	Val	Leu	Ile	Phe	Ser	Thr	Leu	Ile	Gln	Gly	
				85					90					95		
Leu	Thr	Phe	Met	Thr	Phe	Ile	Val	Ser	Tyr	Ser	Ser	Val	Ile	Phe	Pro	
			100					105					110			
Ile	Leu	Lys	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	
		115					120					125				
Cys	Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	
	130					135					140					
Leu	Met	Tyr	Val	His	Pro	Gly	Ser	Gly	Ser	Gly	Glu	Asp	Lys	Gly	Arg	
145					150					155					160	
Met	Tyr	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Ile	Leu	Phe	Leu	Asn	Pro	Phe	
				165					170					175		
Phe	Ile	Thr														

<210> 2403  
 <211> 262  
 <212> PRT  
 <213> Mus musculus

<400> 2403

Thr	His	Ser	Cys	Thr	Leu	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Thr	Leu	Ser	
1				5					10					15		
Leu	Leu	Asp	Met	Ser	Tyr	Val	Thr	Thr	Met	Pro	Gln	Met	Leu	Val	His	
			20					25					30			
Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Cys	Leu	Gln	
		35					40					45				
Met	Tyr	Val	Phe	Gly	Ala	Leu	Gly	Met	Thr	Glu	Cys	Thr	Phe	Phe	Val	
	50					55					60					
Val	Met	Ala	Tyr	His	Arg	Tyr	Val	Ala	Ile	Cys	Pro	Leu	Pro	Tyr	Thr	
65					70					75					80	
Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys	Met	Arg	Leu	Ala	Ala	Gly	Ser	Trp	
			85						90					95		
Ile	Cys	Gly	Phe	Phe	Ser	Ser	Leu	Leu	His	Thr	Phe	Phe	Thr	Met	Ser	



<210> 2405  
 <211> 155  
 <212> PRT  
 <213> Mus musculus

<400> 2405  
 Leu Met Leu Phe Leu Lys Leu Asp Phe Cys Ala Ser Asn Val Ile Asp  
 1 5 10 15  
 His Phe Cys Cys Asp Tyr Phe Pro Ile Leu Gln Leu Ser Cys Ser Asp  
 20 25 30  
 Thr Trp Phe Leu Glu Thr Ile Gly Phe Tyr Phe Ala Phe Ile Thr Leu  
 35 40 45  
 Leu Phe Thr Leu Ala Leu Val Ile Leu Ser Tyr Ile Cys Ile Ile Asn  
 50 55 60  
 Thr Ile Leu Arg Phe Pro Ser Ala Ser Gln Arg Lys Lys Ala Phe Ser  
 65 70 75 80  
 Thr Cys Ser Ser His Met Ile Val Ile Ser Ile Ser Tyr Gly Ser Cys  
 85 90 95  
 Ile Phe Met Tyr Val Lys Pro Ser Ala Asn Glu Arg Ala Ser Leu Thr  
 100 105 110  
 Lys Gly Val Ala Leu Leu Asn Thr Ser Ile Ala Pro Met Leu Asn Pro  
 115 120 125  
 Phe Ile Tyr Thr Leu Arg Asn Gln Gln Val Lys Gln Ala Phe Lys Asp  
 130 135 140  
 Leu Ile Asn Lys Leu Met Phe Asn Arg Asn Lys  
 145 150 155

<210> 2406  
 <211> 214  
 <212> PRT  
 <213> Mus musculus

<400> 2406  
 Asp Leu Ala Ile Gly Gln Tyr Cys Met Leu His Glu Phe Ile Leu Thr  
 1 5 10 15  
 Glu Leu Ser Lys Lys Leu Asp Ser Gln Leu Pro Phe Ser Ser Thr Phe  
 20 25 30  
 Ile Gly Thr Tyr Ala Leu Thr Leu Val Gly Asn Leu Gly Arg Phe Thr  
 35 40 45  
 Leu Asn Gln Ser Phe His Leu His Lys Pro Met Tyr Tyr Phe Phe Ser  
 50 55 60  
 Asn Ile Tyr Ser Ile Asn Leu Cys His Pro Met Val Val Asn Pro Lys  
 65 70 75 80  
 Met Phe Gly Lys Phe Val Ile Glu Asn Asn Pro Ile Ser His Pro Gln  
 85 90 95  
 Tyr Met Thr Gln Leu Tyr Phe Ile Leu Ser Phe Val Thr Ala Lys Cys  
 100 105 110  
 His Leu Leu Ala Ala Ile Ser Tyr Glu Pro His Val Ala Ile Tyr Asn  
 115 120 125  
 Pro Leu Val Tyr Asn Val Thr Ile Phe Ser Gln Ile Tyr Ser Ser Leu  
 130 135 140  
 Ile Ser Glu Val His Ile Thr Gly Val Val Cys Ile Ser Gly His Thr  
 145 150 155 160  
 Gly Ile Lys Ile Ser Val Leu Gly Asn Ile Gly Val Ile Lys Tyr His  
 165 170 175  
 Phe Tyr Val Leu Thr Gln Asn Ser Pro Thr Tyr Val Lys Val Leu Val



Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Pro	Asn	Leu	Ile	His	Leu	Pro	Cys
			180					185					190		
Gly	Asp	Ile	Ser	Ile	Asp	Asn	Ile	Tyr	Gly	Leu	Phe	Ile	Val	Thr	Ser
	195					200						205			
Thr	Phe	Gly	Leu	Asp	Ser	Leu	Leu	Ile	Val	Val	Ser	Tyr	Gly	Leu	Ile
	210					215					220				
Leu	His	Thr	Val	Leu	Gly	Ile	Ala	Thr	Gly	Asp	Gly	Arg	Arg	Lys	Ala
225					230					235					240
Leu	Asn	Thr	Cys	Gly	Ser	His	Val	Cys	Ala	Val	Leu	Ala	Tyr	Tyr	Val
			245						250					255	
Pro	Met	Ile	Gly	Leu	Ser	Met	Val	His	Arg	Phe	Ala	His	His	Val	Ser
		260						265					270		
Pro	Leu	Leu	Gln	Thr	Met	Met	Ala	Asn	Ala	Tyr	Leu	Phe	Phe	Pro	Pro
	275						280					285			
Val	Ile	Asn	Pro	Ile	Val	Tyr	Ser	Ile	Lys	Thr	Lys	Glu	Ile	Arg	Arg
	290					295					300				
Gly	Ile	Val	Arg	Met	Leu	Ser	Glu	Lys	Arg	Phe	Arg	Val			
305					310					315					

<210> 2409

<211> 322

<212> PRT

<213> Mus musculus

<400> 2409

Met	Pro	Gln	Pro	Leu	Val	Pro	Leu	Ile	Ala	Thr	Pro	Asn	Gly	Ser	Leu
1				5					10					15	
Ala	His	Pro	Ala	Tyr	Phe	Leu	Leu	Val	Gly	Ile	Pro	Gly	Leu	Gly	Ser
			20					25					30		
Lys	Ile	His	Phe	Trp	Leu	Ala	Phe	Pro	Leu	Cys	Phe	Met	Tyr	Ala	Val
		35				40						45			
Ala	Thr	Leu	Gly	Asn	Leu	Ala	Ile	Ile	Phe	Ile	Ile	Arg	Val	Glu	Arg
	50					55					60				
Arg	Leu	His	Glu	Pro	Met	Tyr	Leu	Phe	Leu	Ala	Met	Leu	Ser	Thr	Ile
65					70					75					80
Asp	Leu	Val	Leu	Ser	Ser	Val	Thr	Met	Pro	Lys	Met	Ala	Ser	Leu	Phe
			85						90					95	
Leu	Thr	Gly	Ile	Gln	Glu	Ile	Glu	Phe	Asn	Ile	Cys	Leu	Thr	Gln	Met
		100						105					110		
Phe	Leu	Ile	His	Ala	Leu	Ser	Ala	Met	Glu	Ser	Ala	Val	Leu	Leu	Ala
		115					120					125			
Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Arg	His	Ala
	130					135					140				
Ser	Val	Leu	Thr	Gly	Thr	Thr	Val	Ala	Lys	Ile	Gly	Leu	Ala	Ser	Leu
145					150					155					160
Ala	Arg	Gly	Phe	Val	Phe	Phe	Phe	Pro	Leu	Pro	Phe	Leu	Leu	Lys	Arg
			165						170					175	
Leu	Ser	Tyr	Cys	Gln	Thr	His	Thr	Val	Thr	His	Ser	Phe	Cys	Leu	His
			180					185					190		
Gln	Asp	Ile	Met	Lys	Leu	Ser	Cys	Thr	Asp	Thr	Lys	Val	Asn	Val	Val
	195						200					205			
Tyr	Gly	Leu	Phe	Ile	Ile	Leu	Ser	Val	Met	Gly	Val	Asp	Ser	Leu	Phe
	210					215					220				
Ile	Gly	Phe	Ser	Tyr	Ile	Leu	Ile	Leu	Arg	Ala	Val	Leu	Glu	Leu	Ser
225					230					235					240
Thr	Arg	Gly	Ala	Ala	Leu	Lys	Ala	Phe	Asn	Thr	Cys	Ile	Ser	His	Leu
			245						250					255	
Cys	Ala	Val	Leu	Val	Phe	Tyr	Val	Pro	Leu	Ile	Gly	Leu	Ser	Val	Val





Trp Ala Arg Arg Arg Gln Phe Ser Ser Thr  
 340 345

<210> 2411  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2411  
 Met Ser Thr Phe Gln Asn Thr Thr Ala Ser Ser Ile Ile Phe Leu Leu  
 1 5 10 15  
 Thr Gly Val Pro Gly Leu Glu Ala Phe His Thr Trp Ile Ser Ile Pro  
 20 25 30  
 Phe Cys Phe Leu Tyr Ala Thr Ala Leu Ser Gly Asn Ser Leu Ile Leu  
 35 40 45  
 Phe Val Ile Ile Thr Gln Pro Ser Leu His Glu Pro Met Cys Tyr Phe  
 50 55 60  
 Leu Ser Met Leu Ser Thr Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu  
 65 70 75 80  
 Ala Thr Met Leu Gly Ile Phe Trp Phe Asn Ala Arg Glu Ile Ser Phe  
 85 90 95  
 Asn Ala Cys Leu Ser Gln Met Phe Phe Ile Gln Leu Phe Thr Val Met  
 100 105 110  
 Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile  
 115 120 125  
 Ser Asn Pro Leu Arg Tyr Ala Ser Val Leu Thr Asp Leu Lys Ile Ala  
 130 135 140  
 Gln Ile Gly Val Ala Ile Val Thr Arg Gly Thr Leu Ile Leu Thr Pro  
 145 150 155 160  
 Met Val Val Leu Leu Lys Arg Leu Ser Tyr Cys Ser Ser His Val Leu  
 165 170 175  
 His His Ser Tyr Cys Phe His Pro Asp Val Met Lys Leu Ser Cys Thr  
 180 185 190  
 Asp Thr Arg Ile Asn Ser Ala Val Gly Leu Thr Ala Leu Ile Ser Thr  
 195 200 205  
 Ala Gly Val Asp Ser Val Phe Ile Ile Leu Ser Tyr Val Leu Ile Ile  
 210 215 220  
 Arg Thr Val Leu Ser Ile Ala Ser Pro Glu Glu Arg Lys Lys Ala Phe  
 225 230 235 240  
 Ser Thr Cys Ile Ser His Ile Gly Ala Val Ala Val Phe Tyr Ile Pro  
 245 250 255  
 Leu Ile Ser Leu Ser Phe Val His Arg Phe Gly Lys Arg Ala Pro Pro  
 260 265 270  
 Tyr Val His Thr Leu Ile Ala Asn Ala Tyr Leu Leu Ile Pro Pro Val  
 275 280 285  
 Met Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Lys Ile Arg Lys Ala  
 290 295 300  
 Val Leu Lys Val Phe His Ser Ser Met Thr Arg Ala Ser Leu Leu Phe  
 305 310 315 320  
 His Arg Phe Ser Thr Leu Ser Phe Tyr Glu  
 325 330

<210> 2412  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2412

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Val Leu Leu Asn His Thr Leu Val Thr Glu Phe Leu Leu Leu Gly Val
 1          5          10          15
Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Thr Val Leu Ala
 20          25          30
Met Tyr Phe Val Asn Val Ala Gly Asn Gly Ala Ile Leu Met Ile Val
 35          40          45
Ile Ser Asp Pro Arg Leu His Leu Pro Met Tyr Phe Phe Leu Gly Asn
 50          55          60
Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val Thr Val Pro Lys Met
 65          70          75          80
Leu Glu Asn Phe Phe Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys
 85          90          95
Ile Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Leu
100          105          110
Leu Leu Thr Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro
115          120          125
Leu His Tyr Pro Ala Ile Met Asn Ser Gln Ile Cys Ile Leu Val Ala
130          135          140
Ile Ser Ile Trp Ala Ile Pro Phe Leu His Ala Leu Val His Ser Ile
145          150          155          160
Leu Thr Ser Gln Leu Asn Phe Cys Gly Ser Asn His Ile His His Phe
165          170          175
Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Gly Asn Thr Glu
180          185          190
Leu Asn Arg Trp Leu Leu Asn Thr Leu Thr Gly Thr Val Ala Ile Gly
195          200          205
Leu Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Val Thr Tyr Leu
210          215          220
Phe Leu Lys Thr Arg Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr
225          230          235          240
Cys Ala Ser His Phe Met Val Val Met Ile Phe Tyr Ala Pro Val Leu
245          250          255
Phe Ile Tyr Ile Asn Pro Asp Ser Gly Ser Ser Leu Glu Lys Asp Arg
260          265          270
Ile Ile Ala Val Met Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu
275          280          285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Gly Ala Leu Asn Arg Lys
290          295          300
Ile Arg Ile Leu Leu
305
```

<210> 2413

<211> 312

<212> PRT

<213> Mus musculus

<400> 2413

```
Met Ser Ser Ile Asn Ser Thr Gln Phe His Pro Ser Phe Phe Ile Leu
 1          5          10          15
Val Gly Ile Pro Gly Leu Glu Ile Phe His Ile Trp Ile Ala Phe Pro
 20          25          30
Phe Cys Leu Val Tyr Leu Thr Ser Leu Val Gly Asn Ile Thr Ile Leu
 35          40          45
Phe Val Ile Lys Thr Glu His Ser Leu His Gln Pro Met Phe Tyr Phe
 50          55          60
Leu Ala Thr Leu Ser Ile Ile Asp Leu Cys Leu Ser Thr Ser Thr Ile
 65          70          75          80
```

Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg	Glu	Ile	Ser	Phe
				85					90					95	
Gly	Gly	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Val	Phe	Thr	Gly	Met
			100					105					110		
Glu	Thr	Val	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
		115					120					125			
Cys	Lys	Pro	Leu	Gln	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Lys	Thr	Ile	Ser
	130					135					140				
Leu	Leu	Leu	Ser	Val	Val	Ile	Gly	Arg	Asn	Leu	Ile	Leu	Val	Thr	Pro
145					150				155						160
Phe	Val	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	His	His	Ile	Met
				165					170					175	
Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Pro	Ile	Lys	Ile	Asn	Ile	Ile	Tyr	Gly	Leu	Val	Val	Ile	Ser	His	Ile
		195					200					205			
Leu	Val	Asp	Met	Ile	Leu	Ile	Ala	Ser	Ser	Tyr	Val	Leu	Ile	Leu	Arg
	210					215					220				
Ala	Val	Phe	Arg	Ile	Pro	Ser	Gln	Asp	Ala	Arg	Leu	Lys	Ala	Leu	Asn
225					230				235						240
Thr	Cys	Gly	Ser	His	Val	Cys	Ile	Met	Leu	Cys	Phe	Tyr	Thr	Pro	Ala
				245					250					255	
Leu	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly	Gln	Asn	Ile	Pro	His	Tyr
			260					265					270		
Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Ile	Pro	Pro	Ala	Leu
		275				280					285				
Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Arg	Glu	Lys	Ile
	290					295					300				
Ile	Lys	Ile	Val	Val	Gln	Lys	Glu								
305					310										

<210> 2414

<211> 312

<212> PRT

<213> Mus musculus

<400> 2414

Met	Glu	Lys	Trp	Asn	Gln	Ser	Ser	Ser	Asp	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Leu	Pro	Gln	Asn	Gln	Thr	Gly	Leu	Leu	Leu	Met	Met	Leu	Ile	Ile	Leu
			20					25					30		
Val	Phe	Phe	Leu	Ala	Leu	Phe	Gly	Asn	Ser	Ala	Met	Ile	His	Leu	Ile
		35					40				45				
Arg	Val	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln
	50					55					60				
Leu	Ser	Leu	Met	Asp	Leu	Met	Tyr	Ile	Ser	Thr	Thr	Val	Pro	Lys	Met
65					70				75						80
Ala	Phe	Asn	Phe	Leu	Ser	Gly	Gln	Lys	Asn	Ile	Ser	Phe	Leu	Gly	Cys
			85						90					95	
Gly	Val	Gln	Ser	Phe	Phe	Phe	Leu	Thr	Met	Ala	Gly	Ser	Glu	Gly	Leu
			100					105					110		
Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Pro	Ile	Arg	Met	Ser	Lys	Ile	Met	Cys	Leu	Lys	Met	Ile
		130				135					140				
Ile	Gly	Ser	Trp	Ile	Leu	Gly	Ser	Ile	Asn	Ser	Leu	Ala	His	Ser	Ile
145					150				155						160
Tyr	Ala	Leu	His	Ile	Pro	Tyr	Cys	His	Ser	Arg	Ser	Ile	Asn	His	Phe

Phe	Cys	Asp	Val	165	Pro	Ala	Met	Leu	170	Pro	Leu	Ala	Cys	Met	175	Asp	Thr	Trp
Val	Tyr	Glu	Tyr	180	Met	Val	Phe	Val	185	Ser	Thr	Ser	Leu	Phe	190	Leu	Leu	Leu
Pro	Phe	Leu	Gly	195	Ile	Thr	Ala	Ser	200	Tyr	Gly	Arg	Val	Leu	205	Phe	Ala	Val
				210					215						220			
Phe	His	Met	Arg	Ser	Lys	Glu	Gly	Lys	Lys	Lys	Ala	Phe	Thr	Thr	Cys			
225					230				235						240			
Ser	Thr	His	Leu	Thr	Val	Val	Thr	Phe	Tyr	Tyr	Ala	Pro	Phe	Val	Tyr			
				245					250						255			
Thr	Tyr	Leu	Arg	Pro	Arg	Ser	Leu	Arg	Ser	Pro	Thr	Glu	Asp	Lys	Ile			
			260						265						270			
Leu	Thr	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile			
			275						280						285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Leu	Gly	Ala	Met	Thr	Arg	Val	Leu			
			290			295					300							
Gly	Thr	Phe	Ser	Ser	Met	Lys	Pro											
305					310													

<210> 2415

<211> 321

<212> PRT

<213> Mus musculus

<400> 2415

Met	Glu	Asn	Ile	Ala	Cys	Asn	Gly	Ser	Gly	Asn	Ser	Gln	Thr	Ser	Phe			
1				5					10					15				
Tyr	Leu	Thr	Gly	Ile	Pro	Ser	Leu	Gln	Lys	Ser	Leu	Phe	Leu	Pro	Val			
			20					25					30					
Phe	Leu	Ile	Phe	Leu	Leu	Leu	Tyr	Leu	Leu	Ile	Leu	Val	Gly	Asn	Ala			
			35				40					45						
Leu	Ile	Leu	Val	Ala	Val	Val	Ala	Glu	Arg	Ser	Leu	His	Lys	Pro	Met			
			50			55					60							
Tyr	Phe	Phe	Leu	Ile	Asn	Leu	Ser	Ala	Leu	Asp	Ile	Leu	Phe	Thr	Thr			
65					70					75					80			
Thr	Thr	Val	Pro	Lys	Met	Leu	Ser	Leu	Leu	Leu	Gly	Asp	Arg	Phe				
				85					90				95					
Leu	Ser	Phe	Pro	Ala	Cys	Phe	Leu	Gln	Met	Tyr	Leu	Phe	His	Ser	Phe			
			100					105					110					
Ser	Cys	Ser	Glu	Ala	Phe	Ile	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr			
			115				120					125						
Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Val	His	Met	Thr	Pro	Gln			
			130			135					140							
Thr	Asn	Thr	Ala	Leu	Ala	Ala	Ser	Ala	Trp	Ile	Thr	Ala	Leu	Leu	Leu			
145					150					155					160			
Pro	Ile	Pro	Ala	Val	Ile	Gln	Thr	Ser	Gln	Met	Ala	Phe	Asp	Asn	Ile			
				165					170						175			
Ala	Tyr	Ile	Tyr	His	Cys	Phe	Cys	Asp	His	Leu	Ala	Val	Val	Gln	Ala			
			180					185					190					
Ser	Cys	Ser	Asp	Thr	Thr	Pro	Gln	Thr	Leu	Met	Gly	Phe	Cys	Ile	Ala			
			195				200					205						
Met	Val	Val	Ser	Phe	Leu	Pro	Leu	Leu	Leu	Val	Leu	Leu	Ser	Tyr	Ala			
			210			215					220							
Arg	Ile	Leu	Ser	Ser	Val	Leu	Arg	Ile	Asn	Ser	Lys	Glu	Gly	Arg	Ser			
225					230					235					240			
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Gly	Thr	Tyr			
				245					250						255			

Tyr	Ser	Ser	Ile	Ala	Ile	Ala	Tyr	Val	Ala	Tyr	Arg	Ala	Asp	Leu	Pro
			260					265					270		
Val	Asp	Phe	His	Ile	Met	Gly	Asn	Val	Val	Tyr	Ala	Ile	Leu	Thr	Pro
		275					280					285			
Val	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ser
	290					295					300				
Ala	Ile	Thr	Lys	Met	Met	Cys	His	Gln	Asp	Pro	Lys	Ser	Ile	Gly	Lys
305					310					315					320
Pro															

<210> 2416

<211> 329

<212> PRT

<213> Mus musculus

<400> 2416

Met	Arg	Pro	Lys	Leu	His	Pro	Tyr	Arg	Met	Ala	Glu	Ser	Ser	Gln	Ser
1				5					10					15	
Asn	Ser	Thr	Phe	Gln	His	Pro	Ala	Phe	Phe	Ile	Leu	Thr	Gly	Ile	Pro
			20					25					30		
Ala	Leu	Gly	Asp	Gly	Gln	Ala	Trp	Leu	Ser	Leu	Val	Phe	Gly	Leu	Met
		35					40					45			
Tyr	Leu	Leu	Ala	Leu	Leu	Gly	Asn	Ala	Thr	Leu	Leu	Thr	Val	Ile	Arg
	50					55					60				
Ile	Asp	Ser	Thr	Leu	His	Gln	Pro	Met	Phe	Leu	Leu	Leu	Ala	Thr	Leu
65					70					75					80
Ala	Ala	Thr	Asp	Leu	Gly	Leu	Ala	Thr	Ser	Ile	Ala	Pro	Glu	Leu	Leu
			85						90					95	
Ala	Val	Leu	Trp	Leu	Gly	Pro	Gln	Pro	Val	Gln	Tyr	Thr	Ala	Cys	Leu
			100					105						110	
Ile	Gln	Met	Phe	Phe	Val	His	Ala	Leu	Thr	Ala	Met	Glu	Ser	Gly	Val
		115					120					125			
Leu	Leu	Ala	Met	Ala	Cys	Asp	Arg	Ala	Val	Ala	Val	Gly	Arg	Pro	Leu
	130					135					140				
His	Tyr	Pro	Ile	Leu	Val	Thr	Lys	Ala	Arg	Val	Gly	Tyr	Ala	Val	Leu
145					150					155					160
Ala	Leu	Thr	Leu	Lys	Val	Leu	Ala	Val	Ile	Val	Pro	Phe	Pro	Leu	Leu
			165						170					175	
Val	Val	Arg	Phe	Lys	His	Phe	His	Ala	Lys	Ile	Ile	His	His	Ala	Tyr
			180					185						190	
Cys	Ala	His	Met	Ala	Val	Val	Glu	Leu	Val	Val	Gly	Asn	Thr	Trp	Val
		195					200					205			
Asn	Asn	Met	Tyr	Gly	Leu	Ala	Leu	Ser	Leu	Ala	Val	Ser	Gly	Val	Asp
	210					215					220				
Ile	Leu	Gly	Ile	Ala	Gly	Ser	Tyr	Gly	Leu	Ile	Ala	His	Ala	Val	Leu
225					230					235					240
Arg	Leu	Pro	Thr	Gln	Glu	Ala	Arg	Val	Lys	Ala	Phe	Gly	Thr	Cys	Ser
				245					250					255	
Ser	His	Ile	Cys	Val	Ile	Leu	Ala	Phe	Tyr	Val	Pro	Gly	Leu	Phe	Ser
			260					265					270		
Phe	Leu	Thr	His	Arg	Phe	Gly	Arg	His	Thr	Val	Pro	Lys	Pro	Val	His
		275					280					285			
Ile	Leu	Leu	Ser	Ile	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Ala	Leu	Asn	Pro
	290					295					300				
Leu	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Phe	Leu	Glu
305					310					315					320
Met	Phe	Lys	Phe	Arg	Lys	Lys	Gln	Phe							

&lt;210&gt; 2417

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2417

```

Met Gly Glu Asp Gly Asn Thr Ser Ile Phe Asn Leu Ser Tyr Ser Ser
 1          5          10          15
Phe Leu Leu Val Gly Phe Pro Gly Leu Gln Glu Gly Arg Pro Leu Leu
 20          25          30
Val Leu Pro Leu Thr Phe Leu Tyr Val Ser Ile Val Ser Ala Asn Ala
 35          40          45
Leu Val Ile His Thr Val Val Ala Gln Arg Ser Leu His Gln Pro Met
 50          55          60
Tyr Val Leu Ile Ala Leu Leu Leu Ala Val Asn Ile Cys Ala Ser Thr
 65          70          75          80
Ala Val Met Pro Lys Met Leu Glu Gly Phe Val His Tyr Ala Asn Pro
 85          90          95
Ile Ser Leu Arg Gly Cys Leu Thr Gln Met Phe Phe Ile Tyr Phe Thr
 100         105         110
Leu Leu Leu Asp Tyr Asn Leu Leu Ala Met Ala Leu Asp Arg Tyr
 115         120         125
Val Ala Ile Cys His Pro Leu Arg Tyr Thr Asp Leu Met Thr Ser His
 130         135         140
Leu Leu Gly Leu Met Ala Thr Phe Ala Ile Thr Arg Ser Leu Gly Val
 145         150         155         160
Ala Val Pro Leu Val Val Leu Thr Ala Lys Ala Gln Phe Cys Lys Thr
 165         170         175
Ser Val Ile Arg His Phe Thr Cys Glu Tyr Ile Ala Leu Leu Ser Ile
 180         185         190
Ala Cys Gly Asp Leu Thr Phe Asn Asn Arg Leu Gly Leu Ala Met Arg
 195         200         205
Leu Val Thr Val Thr Phe Asp Leu Ala Leu Leu Gly Thr Ser Tyr Thr
 210         215         220
Arg Ile Ile Tyr Ala Ala Phe Arg Ile Ser Ser Gly Gly Ala Arg Ala
 225         230         235         240
Lys Ala Leu His Thr Cys Gly Ser His Leu Leu Val Ile Leu Thr Ile
 245         250         255
Tyr Leu Ser Gly Leu Ser Thr Ser Ile Val Phe Arg Val Ala Lys Thr
 260         265         270
Val Ser Gln Asp Val Gln Asn Leu Leu Ser Ala Ile Tyr Leu Leu Leu
 275         280         285
Pro Gly Ala Leu Asn Pro Leu Ile Tyr Gly Val Arg Thr Lys Glu Ile
 290         295         300
Arg Gln His Ile Glu Lys Met Leu Cys Gly Met Gln Ser Pro Gln Asp
 305         310         315         320
Ser Arg

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&lt;210&gt; 2418

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2418

Met	Phe	Asn	Ser	Ser	Gln	Phe	Thr	Pro	Lys	Tyr	Phe	Leu	Leu	Thr	Gly
1				5					10					15	
Phe	Pro	Gly	Leu	Glu	Ala	Trp	Tyr	Pro	Trp	Leu	Ile	Phe	Pro	Phe	Cys
		20						25					30		
Phe	Thr	Tyr	Thr	Ile	Gly	Ile	Met	Gly	Asn	Thr	Leu	Ile	Leu	Ala	Val
		35					40					45			
Ile	Arg	Lys	Asn	Ser	Ser	Leu	His	Gln	Pro	Met	Phe	Leu	Phe	Leu	Ala
	50					55					60				
Met	Leu	Ala	Phe	Ser	Glu	Leu	Gly	Val	Ser	Ala	Ser	Thr	Leu	Pro	Thr
65					70					75					80
Val	Leu	Ser	Ile	Phe	Leu	Leu	Gly	Ala	Asn	Lys	Ile	Cys	Phe	Glu	Ala
				85					90					95	
Cys	Leu	Leu	Gln	Met	Phe	Ser	Ile	His	Ser	Phe	Ser	Ile	Met	Glu	Ser
			100						105					110	
Gly	Val	Leu	Leu	Ala	Met	Ser	Val	Asp	Arg	Phe	Val	Ala	Ile	Tyr	Asn
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Ala	Ile	Leu	Thr	Leu	Pro	Arg	Ile	Ala	Gly	Thr
	130					135					140				
Ser	Leu	Thr	Leu	Gly	Leu	Lys	Ser	Leu	Leu	Leu	Met	Phe	Pro	Leu	Pro
145					150					155					160
Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Gly	His	Asn	Val	Leu	Ser	His
				165					170					175	
Ser	Tyr	Cys	Leu	His	Ser	Asp	Leu	Ile	Gln	Leu	Pro	Cys	Gly	Asp	Thr
		180						185					190		
Arg	Pro	Asn	Ser	Ile	Leu	Gly	Leu	Cys	Ile	Val	Thr	Ser	Thr	Phe	Gly
		195					200					205			
Leu	Asp	Ser	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Leu	Ile	Leu	Tyr	Thr
	210					215					220				
Val	Leu	Asn	Ile	Thr	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Asn	Thr
225					230					235					240
Cys	Val	Ser	His	Met	Cys	Ala	Val	Leu	Val	Tyr	Tyr	Val	Pro	Met	Ile
				245					250					255	
Ser	Val	Ala	Leu	Val	His	Arg	Phe	Met	Lys	His	Ala	Val	Pro	Ala	Val
		260						265					270		
Arg	Leu	Leu	Leu	Ala	Asn	Ile	Tyr	Leu	Leu	Val	Pro	Pro	Met	Leu	Asn
		275					280					285			
Pro	Ile	Ile	Tyr	Ser	Ala	Lys	Asn	Arg	Gln	Ile	Arg	Gln	Gly	Leu	Ile
	290					295					300				
Gln	Leu	Phe	Leu	Gln	Arg	Lys	Tyr								
305					310										

<210> 2419

<211> 320

<212> PRT

<213> Mus musculus

<400> 2419

Leu	Asp	Thr	Lys	Arg	Ala	Thr	Asn	Ser	Ser	Glu	Phe	Gln	Val	Ser	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Glu	Phe	Gln	Ile	Trp	Leu
		20						25					30		
Ser	Leu	Pro	Met	Ala	Leu	Leu	Tyr	Ile	Val	Ala	Leu	Gly	Ala	Asn	Leu
		35					40					45			
Leu	Ile	Leu	Ile	Thr	Ile	Tyr	Leu	Glu	Pro	Thr	Leu	His	Gln	Pro	Met
	50					55					60				
Tyr	Gln	Phe	Leu	Gly	Ile	Leu	Ala	Ala	Val	Asp	Ile	Gly	Leu	Ala	Thr
65					70					75					80
Thr	Ser	Met	Pro	Lys	Ile	Leu	Ala	Ile	Leu	Trp	Phe	Asp	Ala	Lys	Thr



				85					90					95					
Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Ile	Tyr	Ala	Ile	His	Thr	Phe				
			100					105					110						
Met	Cys	Met	Glu	Ser	Gly	Val	Phe	Leu	Cys	Met	Ala	Ile	Asp	Arg	Tyr				
		115						120					125						
Val	Ala	Ile	Cys	Tyr	Pro	Leu	Gln	Tyr	Pro	Ser	Ile	Val	Thr	Glu	Ala				
	130						135					140							
Phe	Val	Ile	Lys	Ala	Thr	Leu	Ser	Met	Leu	Leu	Arg	Asn	Gly	Leu	Leu				
145					150					155					160				
Thr	Ile	Pro	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Gln	Tyr	Cys	Ser	Arg				
				165					170						175				
Asn	Glu	Ile	Asp	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Ile	Ser	Leu				
			180					185					190						
Ala	Cys	Asp	Asp	Ile	Thr	Val	Asn	Arg	Phe	Tyr	Gln	Leu	Ala	Leu	Ala				
		195					200					205							
Trp	Leu	Val	Val	Gly	Ser	Asp	Met	Ile	Leu	Val	Tyr	Ala	Ser	Tyr	Ala				
	210					215					220								
Leu	Ile	Ile	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Thr	Glu	Ala	Ala	Ser				
225					230					235					240				
Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Leu	Ile	Met	Phe	Tyr				
				245					250						255				
Tyr	Thr	Ala	Ile	Val	Ile	Val	Ser	Val	Thr	His	Leu	Ala	Gly	Arg	Arg				
			260					265					270						
Val	Pro	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Met	His	Ile	Val	Ile	Pro				
		275					280					285							
Pro	Ser	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Arg	Thr	Gln	Glu	Leu	Lys				
	290					295					300								
Val	Gly	Phe	Arg	Lys	Val	Phe	Glu	Ser	Leu	Cys	Val	Gln	Lys	Val	Asn				
305					310					315					320				

<210> 2420

<211> 322

<212> PRT

<213> Mus musculus

<400> 2420

Asn	Arg	Ser	Gln	Thr	Ala	Asp	Pro	Lys	Asn	Ser	Ser	Thr	Val	Thr	Glu				
1				5					10					15					
Phe	Ile	Leu	Val	Gly	Phe	Glu	Gln	Ser	Ser	Pro	Ser	Thr	Arg	Ala	Leu				
			20					25					30						
Leu	Phe	Thr	Leu	Phe	Leu	Ala	Leu	Tyr	Ser	Leu	Ala	Met	Ala	Met	Asn				
		35					40					45							
Gly	Leu	Ile	Ile	Phe	Ile	Thr	Trp	Thr	Asp	Pro	Arg	Leu	Asn	Ser	Pro				
	50					55				60									
Met	Tyr	Phe	Phe	Leu	Gly	His	Leu	Ser	Phe	Leu	Asp	Val	Cys	Phe	Ile				
65					70					75					80				
Thr	Thr	Thr	Ile	Pro	Gln	Met	Leu	Val	His	Leu	Val	Thr	Lys	Asn	His				
				85					90					95					
Thr	Val	Ser	Phe	Val	Ser	Cys	Met	Thr	Gln	Met	Tyr	Leu	Val	Phe	Leu				
			100					105					110						
Val	Gly	Val	Ala	Glu	Cys	Ile	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg				
		115					120					125							
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Asn	Tyr	Ala	Gln	Ile	Met	Ser	Gln				
	130					135					140								
Lys	Val	Cys	Val	Arg	Leu	Val	Cys	Ser	Ser	Trp	Ile	Phe	Gly	Met	Val				
145					150					155					160				
Asn	Gly	Ile	Phe	Leu	Glu	Tyr	Ile	Ser	Phe	Arg	Asn	Pro	Phe	Cys	Lys				
				165					170					175					

Asp	Asn	His	Ile	Glu	Asn	Phe	Phe	Cys	Glu	Ala	Pro	Ile	Val	Ile	Ala
			180					185					190		
Leu	Ser	Cys	Gly	Asp	Leu	Lys	Phe	Thr	Met	Lys	Leu	Ile	Phe	Val	Asp
		195					200						205		
Ala	Ile	Val	Val	Leu	Leu	Ser	Pro	Met	Val	Leu	Ile	Ile	Thr	Ser	Tyr
		210					215					220			
Ala	Arg	Ile	Leu	Ala	Ser	Ile	Leu	Arg	Arg	Ala	Ser	Ser	Ser	Gly	Arg
					230					235					240
Gly	Lys	Thr	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Phe
				245					250					255	
Phe	Tyr	Thr	Ser	Ala	Met	Phe	Ser	Tyr	Met	Asn	Pro	Arg	Ser	Thr	His
			260					265					270		
Gly	Pro	Asp	Lys	Asp	Lys	Pro	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Ile	Thr
		275					280						285		
Pro	Met	Cys	Asn	Pro	Val	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Met	Lys
		290				295					300				
Gly	Ala	Met	Gly	Arg	Ala	Leu	Gly	Ile	Gly	Ser	Leu	Ala	Gln	Ala	Glu
					310					315					320
Ser	Val														

<210> 2421

<211> 322

<212> PRT

<213> Mus musculus

<400> 2421

Arg	Pro	Gln	Lys	Gly	Asp	Ser	Arg	Asn	Ser	Ser	Ser	Thr	Val	Thr	Glu
1				5					10					15	
Phe	Ile	Leu	Val	Gly	Phe	Glu	Gln	Ser	Pro	Ser	Thr	Arg	Ala	Leu	
			20					25				30			
Leu	Phe	Thr	Leu	Phe	Leu	Ala	Leu	Tyr	Ser	Leu	Ala	Met	Ala	Met	Asn
		35					40					45			
Gly	Leu	Ile	Ile	Phe	Ile	Thr	Trp	Thr	Asp	Pro	Arg	Leu	Asn	Ser	Pro
		50				55				60					
Met	Tyr	Phe	Phe	Leu	Gly	His	Leu	Ser	Phe	Leu	Asp	Val	Cys	Phe	Ile
					70					75					80
Thr	Thr	Thr	Ile	Pro	Gln	Met	Leu	Val	His	Leu	Val	Thr	Lys	Asn	His
				85					90					95	
Thr	Val	Ser	Phe	Ala	Ser	Cys	Leu	Thr	Gln	Met	Tyr	Leu	Val	Phe	Gly
			100					105					110		
Val	Gly	Val	Ala	Glu	Cys	Ile	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Asn	Tyr	Ala	Gln	Ile	Met	Ser	Gln
		130				135					140				
Lys	Val	Cys	Val	Arg	Leu	Val	Cys	Ser	Ser	Trp	Ile	Phe	Gly	Met	Val
					150					155					160
Asn	Gly	Ile	Leu	Leu	Asp	Tyr	Met	Thr	Phe	Arg	Gly	Pro	Phe	Cys	Arg
				165					170					175	
Glu	Asn	His	Ile	Glu	Asn	Phe	Phe	Cys	Glu	Ala	Pro	Ile	Val	Ile	Ala
			180					185					190		
Leu	Ser	Cys	Gly	Asp	Pro	Glu	Phe	Ser	Leu	Lys	Val	Ile	Phe	Met	Asp
		195					200					205			
Ala	Ile	Val	Val	Leu	Leu	Ser	Pro	Met	Val	Leu	Ile	Val	Thr	Ser	Tyr
		210					215					220			
Ala	Arg	Ile	Leu	Ala	Ser	Ile	Leu	Arg	Arg	Ala	Ser	Ser	Ala	Gly	Arg
					230					235					240
Gly	Lys	Thr	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Phe



<210> 2423  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2423  
 Met Glu Leu Trp Asn Ser Thr Leu Glu Ser Gly Phe Ile Leu Val Gly  
 1 5 10 15  
 Ile Leu Asn Gly Ser Ser Ser Pro Glu Leu Leu Cys Ala Ile Val Thr  
 20 25 30  
 Ala Leu Tyr Met Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Val  
 35 40 45  
 Ile Thr Val Asp Ala Arg Leu His Val Pro Met Tyr Leu Leu Arg  
 50 55 60  
 Gln Leu Ser Leu Ile Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys  
 65 70 75 80  
 Ala Val Met Asp Phe Leu Leu Arg Asp Asn Thr Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Ala Leu Gln Met Ala Leu Ala Leu Met Leu Gly Ser Ala Glu Asp  
 100 105 110  
 Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Met Val Phe Met Ser Pro Thr Val Cys Trp Leu Ile  
 130 135 140  
 Val Ser Thr Ser Trp Ile Leu Ala Ser Leu Thr Ala Val Gly His Thr  
 145 150 155 160  
 Val Tyr Thr Met His Phe Pro Phe Cys Met Ser Gln Glu Ile Arg His  
 165 170 175  
 Leu Leu Cys Glu Ile Leu Pro Leu Leu Lys Leu Ser Cys Val Asp Thr  
 180 185 190  
 Ser Gln Tyr Glu Leu Met Val Tyr Val Thr Gly Val Thr Phe Leu Leu  
 195 200 205  
 Leu Pro Leu Ser Ala Ile Val Thr Ser Tyr Thr Leu Ile Leu Ser Thr  
 210 215 220  
 Val Leu His Met Pro Ser Asn Glu Gly Lys Lys Lys Ala Leu Val Thr  
 225 230 235 240  
 Cys Leu Ser His Leu Met Val Val Gly Met Phe Tyr Gly Ala Ala Thr  
 245 250 255  
 Phe Met Tyr Val Leu Pro Ser Ser Leu His Ser Ala Lys Gln Asp Asn  
 260 265 270  
 Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Gly Ala Leu Arg Arg Val  
 290 295 300  
 Leu Gly Arg Tyr Ile Leu Pro Ala His Leu Thr Leu  
 305 310 315

<210> 2424  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2424  
 Met Glu Asn Ile Thr Asn Ile Ser Glu Phe Ile Leu Met Gly Phe Pro  
 1 5 10 15  
 Thr Ala Pro Trp Leu Gln Ile Leu Leu Phe Ser Ile Phe Phe Ile Thr



Cys	Leu	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Thr	Ile	Lys	Met	Ser	Lys	Lys	Leu	Cys	Ile	Gln
	130					135					140				
Leu	Val	Ala	Val	Ala	Tyr	Ala	Ile	Gly	Leu	Val	Asp	Ser	Thr	Ile	His
145					150					155					160
Thr	Ser	Cys	Ala	Phe	Arg	Leu	Ser	Phe	Cys	Asn	Ser	Asn	Val	Ile	Asn
			165						170					175	
His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Thr	Ser	Ile	Asn	Glu	Ile	Val	Met	Phe	Thr	Leu	Ile	Gly	Cys	Val	Val
		195					200					205			
Gly	Cys	Ser	Ile	Val	Thr	Val	Leu	Leu	Ser	Tyr	Cys	Tyr	Ile	Ile	Ala
	210					215					220				
Thr	Ile	Cys	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Met	Ala	Leu	Ala	Ile	Phe	Tyr	Gly	Thr	Leu
				245					250					255	
Leu	Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Met	Asp	Thr	Asp
			260					265					270		
Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Lys
	290					295					300				
Ala	Ile	Asn	Ile	Asn	Leu	Trp	Pro	Gly							
305					310										

<210> 2426

<211> 323

<212> PRT

<213> Mus musculus

<400> 2426

Met	Phe	Tyr	Leu	Leu	Ser	Val	Asp	Glu	Glu	Lys	Ile	Lys	Ala	Glu	Lys
1				5					10					15	
Ser	Asn	Ala	Ser	Ser	Leu	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asp
		20						25					30		
Val	Pro	Asn	Leu	Gln	Trp	Ile	Leu	Phe	Gly	Ile	Phe	Leu	Ile	Met	Tyr
		35					40					45			
Leu	Thr	Ile	Leu	Met	Cys	Asn	Ser	Thr	Ile	Val	Leu	Ile	Thr	Arg	Thr
	50					55					60				
Asp	Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser
65					70					75				80	
Phe	Val	Glu	Ile	Cys	Tyr	Val	Thr	Val	Thr	Ile	Pro	Arg	Met	Leu	Val
			85					90					95		
Asp	Leu	Cys	Thr	Gln	Lys	Gly	Asn	Ile	Ser	Ile	Leu	Ala	Cys	Ala	Thr
			100					105					110		
Gln	Met	Cys	Phe	Ile	Leu	Met	Leu	Gly	Gly	Thr	Glu	Cys	Leu	Leu	Leu
		115					120					125			
Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His
	130					135					140				
Tyr	Ser	Leu	Val	Met	Asn	His	Arg	Ile	Cys	Thr	Gln	Leu	Val	Ala	Ala
145					150					155					160
Cys	Trp	Ile	Ser	Val	Ile	Pro	Val	Val	Ile	Gly	Gln	Thr	Tyr	Gln	Ile
				165					170					175	
Phe	Ser	Leu	Pro	Phe	Cys	Gly	Ser	Asn	Arg	Ile	Asn	His	Phe	Ile	Cys
			180					185					190		
Asp	Ile	Pro	Pro	Val	Leu	Lys	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Val	Asn



Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Lys	Lys	Val	Ile
	290					295					300				
Asn	Ile	Asn	Leu	Trp	Pro	Gly									
305					310										

<210> 2428

<211> 314

<212> PRT

<213> Mus musculus

<400> 2428

Met	Lys	His	Thr	Asp	Ile	Arg	Glu	Glu	Asp	Asn	Ala	Ser	Thr	Val	Thr
1				5					10					15	
Gln	Phe	Leu	Leu	Leu	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Ser	Phe
			20					25					30		
Leu	Phe	Gly	Val	Phe	Ser	Ile	Met	Tyr	Leu	Ile	Met	Leu	Ile	Ala	Asn
		35					40					45			
Ser	Phe	Ile	Ile	Val	Ile	Thr	Lys	Leu	Asp	Pro	Thr	Leu	Gln	Lys	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Val	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val
65					70					75					80
Ser	Val	Ile	Leu	Pro	Arg	Val	Leu	Tyr	Ser	Ile	Trp	Thr	Gln	Asp	Arg
				85					90					95	
Asn	Ile	Ser	Leu	Leu	Ala	Cys	Ala	Thr	Gln	Met	Cys	Phe	Phe	Leu	Met
			100					105					110		
Leu	Ala	Ala	Thr	Glu	Ser	Ile	Phe	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Ser	Pro
	130					135					140				
Arg	Lys	Cys	Arg	Gln	Leu	Ala	Ala	Gly	Ser	Trp	Leu	Gly	Gly	Met	Pro
145					150					155					160
Phe	Gln	Val	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Asn
				165					170					175	
Ser	Asn	Gln	Ile	Glu	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Val	Leu	Lys
		180						185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Val	Ile	Glu	Met	Tyr	Val	Tyr	Val	Val
		195					200					205			
Ala	Ile	Leu	Leu	Ala	Ala	Ile	Pro	Phe	Ile	Leu	Ile	Leu	Thr	Ser	Tyr
	210					215					220				
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Glu	Gly	Arg
225					230					235					240
Ser	Lys	Ala	Phe	Phe	Thr	Cys	Ser	Ser	His	Leu	Val	Val	Val	Val	Leu
			245						250					255	
Phe	Phe	Ala	Pro	Ala	Ser	Ile	Thr	Tyr	Leu	Met	Pro	Lys	Ser	Ser	His
			260					265					270		
Ser	Ala	Val	Ser	Asp	Lys	Phe	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Thr
		275					280					285			
Pro	Val	Phe	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
	290					295					300				
Ala	Ala	Leu	Arg	Arg	Leu	Leu	Leu	Thr	Thr						
305					310										

<210> 2429

<211> 310

<212> PRT



<213> Mus musculus

<400> 2429

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Met Asn Asn Lys Thr Val Phe Ser Gln Phe Leu Leu Leu Gly Leu Pro
 1      5      10      15
Ile Pro Pro Glu His Gln His Leu Phe Tyr Ala Leu Phe Leu Ala Met
 20      25      30
Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Asn Leu Ile Ile
 35      40      45
Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu
 50      55      60
Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys Leu Leu
 65      70      75      80
Gln Asn Met Gln Ser Gln Asp Thr Ser Ile Thr Tyr Val Gly Cys Leu
 85      90      95
Thr Gln Met Tyr Phe Leu Leu Val Phe Gly Asp Leu Glu Ser Phe Leu
100      105      110
Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu
115      120      125
His Tyr Thr Ser Ile Met Ser Leu Lys Leu Cys Val Tyr Leu Val Leu
130      135      140
Met Ser Trp Val Phe Asn Leu Leu Tyr Ser Met Leu His Ser Leu Leu
145      150      155      160
Leu Ala Arg Leu Ser Phe Cys Glu Asp Asn Val Ile Arg His Phe Phe
165      170      175
Cys Asp Ile Pro Ala Leu Leu Lys Leu Thr Cys Ser Asp Ile His Ile
180      185      190
Asn Glu Leu Met Ile Leu Val Leu Gly Gly Leu Thr Met Val Ile Pro
195      200      205
Phe Leu Leu Ile Val Val Ser Tyr Val Gln Ile Val Ser Ser Ile Leu
210      215      220
Asn Ile Ser Ser Ala Arg Val Ile Gln Lys Ile Phe Ser Thr Cys Gly
225      230      235      240
Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Phe Gly Leu
245      250      255
Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Ile Val Met
260      265      270
Ala Met Met Cys Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
275      280      285
Arg Leu Arg Asn Arg Asn Met Lys Glu Ala Leu Ile Arg Val Leu Phe
290      295      300
Lys Lys Lys Ile Ser Leu
305      310
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<210> 2430

<211> 313

<212> PRT

<213> Mus musculus

<400> 2430

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Met Ala Asn Ser Asn His Ser Ala Val Ser Glu Phe Ile Leu Val Gly
 1      5      10      15
Leu Thr Asp Asp Ser Glu Leu Gln Val Ser Leu Phe Gly Val Phe Leu
 20      25      30
Val Ile Tyr Leu Thr Ser Val Val Gly Asn Val Gly Leu Ile Val Leu
 35      40      45
Ile Gln Val Ser Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr
 50      55      60
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His	Leu	Ala	Phe	Ile	Asp	Phe	Cys	Phe	Thr	Ser	Ser	Val	Thr	Pro	Asn
65					70					75					80
Thr	Leu	Val	Asn	Phe	Leu	Arg	Glu	Val	Lys	Ser	Ile	Thr	Phe	Tyr	Ala
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Cys	Cys	Phe	Val	Thr	Phe	Val	Val	Cys	Glu	Leu
			100					105					110		
Tyr	Leu	Leu	Ser	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Trp	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Ala	Val	Arg	Met	Pro	Arg	Glu	Leu	Cys	Leu	Gln	Val
	130					135					140				
Ile	Ala	Ser	Thr	Tyr	Ile	Tyr	Gly	Phe	Thr	Val	Gly	Leu	Ala	Gln	Ala
145					150					155					160
Val	Ala	Thr	Phe	Arg	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Ile	Asn	His
			165						170					175	
Phe	Tyr	Cys	Asp	Asp	Val	Pro	Leu	Val	Ala	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Val	Lys	Glu	Leu	Met	Leu	Leu	Ile	Ile	Ala	Gly	Phe	Asn	Thr	Leu
		195					200					205			
Cys	Ser	Leu	Val	Ile	Val	Val	Ile	Ser	Tyr	Ile	Cys	Ile	Leu	Phe	Ala
	210					215					220				
Ile	Leu	Arg	Ile	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ser	Ile	Thr	Ile	Phe	Tyr	Gly	Thr	Val	Ser
			245						250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	His	Ser	Leu	Asn	Thr	Asp	Lys
			260					265					270		
Phe	Ala	Ser	Val	Phe	Tyr	Val	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser	Ala	Leu	Lys	Arg	Ile
	290				295						300				
Val	Glu	Lys	Leu	Ser	Ser	Ala	Ile	Lys							
305					310										

<210> 2431

<211> 311

<212> PRT

<213> Mus musculus

<400> 2431

Met	Pro	Gly	Asn	Asn	Gln	Thr	Ile	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Ala	Pro	Glu	Tyr	Glu	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Pro	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Thr	Gln	Val	Tyr	Phe	Phe	Leu	Phe	Phe	Ala	Ala	Leu	Glu	Asn
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Ala	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Ile	Trp	Val	Leu	Thr	Thr	Leu	Tyr	Ala	Met	Leu	His	Thr

145					150					155				160	
Leu	Leu	Leu	Thr	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185						190	
His	Ile	Asn	Glu	Leu	Val	Ile	Leu	Ile	Ile	Gly	Gly	Leu	Val	Val	Leu
		195					200					205			
Leu	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Arg	Gly	Ile	His	Lys	Leu	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
				245					250					255	
Gly	Ile	Tyr	Leu	Gly	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Leu	Lys	Asp	Ile
			260					265					270		
Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Gly	Ala	Leu	Lys	Lys	Val
	290					295					300				
Phe	Gln	Lys	Lys	Ser	Leu	Leu									
305					310										

<210> 2432  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2432

Met	Pro	Gly	Lys	Asn	Gln	Thr	Val	Ile	Ser	Arg	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Leu	Pro	Ile	Pro	Glu	His	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu	
			20				25					30			
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Val	Ile	Ile	Val	Leu
		35				40					45				
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55					60					
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Phe	Ser	Thr	Val	Thr	Met	Pro	Asn
65					70				75					80	
Phe	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Ser	Ser	Ile	Pro	Tyr	Ala	Gly
			85					90					95		
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Val	Glu	Ser
			100					105				110			
Leu	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115				120					125				
Pro	Leu	His	Tyr	Thr	Arg	Ile	Met	Ser	Pro	Asn	Leu	Cys	Val	Ser	Met
	130					135					140				
Val	Leu	Leu	Ser	Trp	Ala	Leu	Thr	Thr	Leu	Tyr	Ala	Met	Leu	His	Thr
145					150				155					160	
Leu	Leu	Leu	Thr	Arg	Leu	Ser	Phe	Cys	Lys	Asn	Asn	Val	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
His	Ile	Asn	Glu	Leu	Met	Ile	Met	Ile	Ile	Gly	Ala	Leu	Val	Val	Ile
		195					200					205			
Leu	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	His	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Arg	Gly	Ile	His	Lys	Val	Phe	Ser	Thr
225					230					235					240

Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Val	Ile
				245					250					255	
Val	Leu	Tyr	Leu	Cys	Pro	Ser	Ser	Asn	Asn	Ser	Thr	Val	Lys	Asp	Thr
			260					265					270		
Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Lys	Arg	Val
	290					295					300				
Leu	Gln	Lys	Lys	Ile	Lys	Leu	Ser								
305					310										

<210> 2433

<211> 315

<212> PRT

<213> Mus musculus

<400> 2433

Met	Glu	Arg	Gly	Asn	Gln	Thr	Val	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Glu	Pro	His	Gln	Gln	Asp	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Ala	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Phe	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys
65					70				75						80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Leu	Phe	Ala	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Leu	Cys	Leu
		130				135					140				
Val	Ala	Leu	Ser	Trp	Leu	Leu	Thr	Thr	Val	Ile	Ser	Leu	Ser	His	Thr
145					150				155						160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asn	Asn	Val	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
Gln	Ile	Asn	Lys	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Leu	Val	Ile	Ile
		195					200					205			
Val	Pro	Phe	Leu	Leu	Ile	Phe	Ser	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Ser	Arg	Ser	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Ile	Lys	Glu	Thr
			260					265					270		
Val	Met	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Phe	Arg	Asn	Gln	Asp	Ile	Lys	Gly	Ala	Phe	Lys	Lys	Val
	290					295					300				
Phe	Ser	Lys	Gln	Met	Ala	Asn	Phe	Ser	Leu	Arg					
305					310					315					

<210> 2434  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2434

Met	Leu	Thr	Gly	Lys	Leu	Val	Leu	Asn	Gln	Ser	Gly	Thr	Pro	Glu	Phe
1				5					10					15	
Val	Phe	Arg	Val	Phe	Thr	Asn	Ala	Pro	Glu	Phe	Gln	Ala	Leu	Leu	Phe
			20				25					30			
Thr	Leu	Phe	Leu	Leu	Leu	Tyr	Leu	Met	Ile	Phe	Cys	Gly	Asn	Thr	Ala
		35				40					45				
Ile	Ile	Trp	Val	Val	Cys	Thr	His	Thr	Ser	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Thr	Thr	Asp
65					70					75					80
Val	Val	Pro	Leu	Met	Leu	Ser	Asn	Ile	Phe	Gly	Thr	Gln	Lys	Pro	Ile
				85					90				95		
Ser	Leu	Ala	Gly	Cys	Gly	Thr	Gln	Met	Phe	Phe	Phe	Leu	Thr	Leu	Gly
			100					105					110		
Gly	Thr	Asp	Cys	Phe	Leu	Leu	Ala	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Asn	Leu	Ile	Met	Thr	Lys	Lys	Leu
	130					135					140				
Cys	Val	Gln	Met	Val	Met	Gly	Ser	Leu	Ser	Leu	Ala	Leu	Phe	Leu	Ser
145					150					155					160
Leu	Gln	Leu	Thr	Ala	Leu	Ile	Phe	Thr	Leu	Pro	Phe	Cys	Gly	His	Tyr
				165					170					175	
Leu	Glu	Ile	Asn	His	Phe	Leu	Cys	Asp	Val	Pro	Pro	Val	Leu	Arg	Leu
			180					185					190		
Ala	Cys	Ala	Asp	Ile	His	Val	His	Gln	Ala	Val	Leu	Tyr	Val	Val	Gly
		195					200					205			
Ile	Leu	Val	Leu	Thr	Val	Pro	Phe	Leu	Leu	Ile	Phe	Ile	Ser	Tyr	Val
	210					215					220				
Phe	Ile	Val	Ser	Thr	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Gly	Arg	Gln
225					230					235					240
Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln
				245					250					255	
Tyr	Gly	Gly	Cys	Ser	Leu	Val	Tyr	Leu	Arg	Pro	Arg	Ser	Ser	Ser	Ser
			260					265					270		
Asp	Asp	Glu	Asp	Arg	Gln	Ile	Ala	Leu	Val	Tyr	Thr	Phe	Val	Thr	Pro
		275					280					285			
Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly
	290					295					300				
Ala	Leu	Arg	Asn	Ser	Ile	Phe	Cys	Lys	Ser	Ala	Ser	His	Cys	Ser	
305					310					315					

<210> 2435  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2435

Met	Val	Asp	Arg	Asn	Pro	Phe	Phe	Asn	Lys	Ser	Gly	Pro	Pro	Glu	Phe
1				5					10					15	
Val	Phe	Arg	Val	Leu	Thr	Asn	Val	Pro	Glu	Phe	Gln	Ala	Ile	Leu	Phe
			20					25					30		

Thr	Leu	Phe	Phe	Leu	Leu	Tyr	Leu	Met	Ile	Leu	Cys	Gly	Asn	Thr	Thr
		35					40					45			
Ile	Ile	Trp	Val	Val	Cys	Asn	His	Ser	Ser	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Gly	Ser	Leu	Ser	Phe	Val	Glu	Ile	Cys	Tyr	Ile	Thr	Asp
65					70					75					80
Val	Val	Pro	Leu	Ile	Leu	Ser	Asn	Ile	Phe	Gly	Asp	Gln	Lys	Pro	Ile
				85					90					95	
Ser	Leu	Ala	Gly	Cys	Gly	Thr	Gln	Met	Phe	Phe	Phe	Ser	Val	Phe	Gly
			100					105					110		
Cys	Thr	Asp	Cys	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Asn	Leu	Ile	Met	Thr	Gln	Lys	Leu
	130					135					140				
Cys	Val	Gln	Met	Val	Ile	Gly	Ser	Leu	Ser	Leu	Ala	Leu	Leu	Leu	Ser
145					150					155					160
Leu	Glu	Leu	Thr	Ala	Phe	Thr	Phe	Thr	Leu	Pro	Phe	Cys	Arg	His	Arg
				165					170					175	
Leu	Glu	Ile	Asn	His	Phe	Leu	Cys	Asp	Val	Ala	Pro	Ile	Met	Arg	Leu
			180					185					190		
Ala	Cys	Ala	Asp	Ile	His	Val	Asn	Gln	Ala	Val	Leu	Tyr	Val	Val	Ser
		195					200					205			
Ile	Leu	Val	Leu	Thr	Val	Pro	Phe	Leu	Leu	Ile	Phe	Ile	Ser	Tyr	Val
	210					215					220				
Phe	Ile	Ala	Ser	Thr	Ile	Leu	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Gln
225					230					235					240
Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln
				245					250					255	
Tyr	Gly	Cys	Cys	Ser	Leu	Val	Tyr	Leu	Arg	Pro	Arg	Ser	Ser	Thr	Ser
			260					265					270		
Glu	Asp	Glu	Asp	Arg	Gln	Ile	Ala	Leu	Val	Tyr	Ile	Phe	Gly	Thr	Pro
		275					280					285			
Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asp
	290					295					300				
Ala	Leu	Arg	Asn	Ser	Phe	Phe	His	Val	Pro	Ala	Ser	Asp	Thr	Ser	
305					310					315					

<210> 2436

<211> 309

<212> PRT

<213> Mus musculus

<400> 2436

Met	Ala	Asp	Ile	His	Asn	Val	Thr	Glu	Phe	Leu	Phe	Leu	Gly	Leu	Ser
1				5					10					15	
Ser	Asn	Lys	Glu	Val	Glu	Ile	Val	Cys	Phe	Val	Ile	Phe	Leu	Leu	Leu
			20					25					30		
Tyr	Met	Ala	Ile	Val	Leu	Gly	Asn	Leu	Leu	Met	Val	Val	Thr	Val	Val
		35					40					45			
Ala	Ser	Arg	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Tyr	Leu
	50					55				60					
Ser	Phe	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Thr	Ala	Pro	Lys	Leu	Ile
65					70					75					80
Leu	Asp	Leu	Leu	Ala	Glu	Lys	Lys	Ser	Ile	Ser	Val	Trp	Gly	Cys	Met
				85					90					95	
Thr	Gln	Leu	Phe	Phe	Met	His	Phe	Phe	Gly	Gly	Ala	Glu	Ile	Phe	Leu
			100					105					110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu



Phe	Val	Val	Leu	Leu	Ala	Ser	Tyr	Gly	Val	Ile	Leu	Phe	His	Leu	Arg
210						215					220				
Thr	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser
225					230					235					240
His	Val	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Val	Phe	Ile	Tyr
				245					250					255	
Leu	Arg	Pro	Ser	Asp	Thr	Leu	Pro	Val	Asp	Lys	Met	Ile	Ala	Val	Phe
			260					265					270		
Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Val	Lys	Lys	Ala	Met	Lys	Ser	Leu	Trp	Phe	Arg	Thr	Met
290						295					300				
Lys	Val	Asp	Glu	Lys											
305															

<210> 2438

<211> 309

<212> PRT

<213> Mus musculus

<400> 2438

Met	Glu	Asn	Lys	Arg	Asn	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly	Leu	Thr
1				5					10					15	
Gln	Asn	Pro	Gln	Met	Gln	Lys	Val	Val	Phe	Val	Thr	Phe	Leu	Val	Leu
			20					25					30		
Tyr	Met	Thr	Thr	Ile	Ser	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr	Ile	Ile
		35				40					45				
Asn	Ser	Gln	Ala	Leu	Asn	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
50					55					60					
Ser	Leu	Ile	Asp	Thr	Ile	Tyr	Thr	Ser	Ser	Ser	Ala	Pro	Lys	Leu	Ile
65					70					75				80	
Ala	Asp	Ser	Leu	Gln	Glu	Asn	Lys	Val	Ile	Ser	Phe	Asn	Gly	Cys	Met
			85						90				95		
Ala	Gln	Val	Tyr	Ala	Glu	His	Ile	Phe	Gly	Ala	Thr	Glu	Ile	Ile	Leu
		100						105				110			
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115				120						125			
His	Tyr	Met	Thr	Ile	Met	Ser	His	Lys	Leu	Cys	Ile	Leu	Leu	Val	Gly
	130					135					140				
Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ala	Thr	Ile	Gln	Ile	Leu	Phe
145				150					155					160	
Thr	Val	Trp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Phe	Met
			165					170					175		
Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Glu	Leu	Val	Cys	Met	Asp	Thr	His	Ile
		180						185				190			
Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Cys	Leu	Phe	Asn
	195						200					205			
Phe	Leu	Leu	Leu	Met	Gly	Ser	Tyr	Val	Ile	Ile	Leu	Arg	Ser	Leu	Lys
	210					215					220				
Asn	Tyr	Ser	Leu	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Val	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Ile	Pro	Cys	Ile	Phe	Val	Tyr
			245						250					255	
Leu	Arg	Pro	Val	Thr	Thr	Leu	Pro	Leu	Asp	Lys	Gly	Val	Ala	Val	Phe
		260						265					270		
Tyr	Thr	Met	Val	Ala	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275						280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Ile	Lys	Lys	Leu	Trp	Arg	Lys	Lys	Val



290  
Thr Ser Asp Ser Asn  
305

295

300

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<211> 305  
<212> PRT  
<213> Mus musculus

<400> 2439  
Met Met Asn Gly Thr Leu Val Thr Glu Phe Leu Ile Leu Gly Phe Ser  
1 5 10 15  
Glu Met Pro His Leu Arg Val Pro Leu Phe Ser Phe Leu Cys Leu  
20 25 30  
Tyr Met Ala Ala Ile Ser Gly Asn Leu Leu Ile Met Val Thr Ile Ser  
35 40 45  
Ala Ser Pro Ala Leu His Thr Pro Met Tyr Phe Phe Leu Val Asn Leu  
50 55 60  
Ala Ile Val Asp Ile Leu Cys Thr Ser Thr Ile Leu Pro Lys Leu Leu  
65 70 75 80  
Asp Ser Met Met Thr Gly Arg Thr Ile Ser Tyr Gly Gly Cys Met Ala  
85 90 95  
Gln Leu Phe Phe Thr Trp Ser Leu Gly Ala Glu Leu Leu Leu Phe  
100 105 110  
Ser Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Cys Pro Leu His  
115 120 125  
Tyr Ser Ala Trp Met Gly Pro Arg Val Cys Ala Phe Leu Ala Gly Ile  
130 135 140  
Val Trp Thr Ile Ser Leu Thr Asn Thr Ser Val His Thr Gly Leu Met  
145 150 155 160  
Leu Arg Leu Pro Phe Cys Ser Ser Asn Val Ile Glu His Phe Phe Cys  
165 170 175  
Glu Ile Pro Pro Leu Leu Lys Leu Ser Cys Ala Pro Thr Gln Leu Asn  
180 185 190  
Glu Ala Met Ala Phe Ala Ala Asp Val Phe Leu Ala Val Gly Asn Phe  
195 200 205  
Ser Val Thr Ile Leu Ser Tyr Gly Phe Ile Val Ala Ser Ile Leu Lys  
210 215 220  
Ile Arg Ser Ala Glu Gly Lys Arg Arg Ala Phe Ser Thr Cys Ser Ala  
225 230 235 240  
His Leu Ile Val Val Thr Met Tyr Tyr Ser Thr Val Ile Tyr Thr Tyr  
245 250 255  
Ile Arg Pro Ser Ser Ser Tyr Ser Leu Asn Lys Asp Lys Val Val Ser  
260 265 270  
Ile Ile Tyr Thr Ser Val Ala Pro Thr Leu Asn Pro Leu Ile Tyr Thr  
275 280 285  
Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Arg Leu Leu Ser Cys  
290 295 300  
Cys  
305

<210> 2440  
<211> 314  
<212> PRT  
<213> Mus musculus

<400> 2440

Met	Glu	Glu	Glu	Asn	Gln	Thr	Gly	Val	Val	Tyr	Phe	His	Phe	Arg	Pro
1				5					10					15	
Phe	Ser	Thr	Asn	Ser	Thr	Val	Ala	Ser	Leu	Val	Phe	Val	Gly	Phe	Leu
			20					25					30		
Leu	Leu	Tyr	Leu	Gly	Ser	Leu	Ile	Gly	Asn	Leu	Thr	Ile	Gly	Leu	Thr
		35					40					45			
Val	Trp	Gln	Asp	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				
Val	Leu	Ala	Thr	Leu	Glu	Leu	Gly	Tyr	Ser	Thr	Asn	Ile	Ala	Pro	Leu
65					70					75				80	
Thr	Leu	Ala	Ser	Ile	Leu	Ser	Met	Gly	Lys	Met	Leu	Ile	Ser	Leu	Pro
				85					90					95	
Ser	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Ile	Leu	Leu	Gly	Gly	Ser	Asp
			100					105					110		
Cys	Val	Leu	Leu	Ala	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	His	Tyr	Ser	Leu	Ile	Met	Ser	Trp	Gln	Leu	Cys	Gly	Gln
	130					135					140				
Met	Ala	Leu	Gly	Ser	Leu	Gly	Leu	Gly	Phe	Leu	Leu	Ser	Leu	Pro	Leu
145					150					155				160	
Thr	Ile	Leu	Ile	Cys	His	Leu	Pro	Phe	Cys	Gly	His	Asn	Glu	Ile	Tyr
				165					170					175	
His	Phe	Phe	Cys	Asp	Met	Pro	Ala	Val	Met	Arg	Leu	Ala	Cys	Thr	Asp
			180					185					190		
Thr	His	Ile	His	Gln	Ala	Ala	Leu	Phe	Ala	Ile	Ser	Val	Ala	Ala	Val
		195					200					205			
Ala	Ile	Pro	Phe	Leu	Leu	Ile	Cys	Leu	Ser	Tyr	Gly	Cys	Ile	Val	Ala
	210					215					220				
Thr	Ile	Leu	Arg	Met	Thr	Ser	Ala	Glu	Gly	Lys	Arg	Arg	Ala	Phe	Ser
225					230					235				240	
Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Val	Leu	Gln	Tyr	Gly	Cys	Cys
				245					250					255	
Thr	Leu	Ile	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Glu	Gly
			260					265					270		
Arg	Ala	Val	Ser	Val	Val	Tyr	Thr	Phe	Phe	Ser	Pro	Leu	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Thr	Asp	Ala	Val	Lys	Arg
	290					295					300				
Leu	Leu	Thr	Arg	Met	Phe	Trp	Phe	Arg	Lys						
305					310										

<210> 2441

<211> 312

<212> PRT

<213> Mus musculus

<400> 2441

Met	Glu	Pro	Gly	Asn	Tyr	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asp	Ile	Thr	Val	Ser	Val	Ile	Leu	Phe	Val	Met	Phe	Leu
			20					25					30		
Ile	Val	Tyr	Ser	Val	Thr	Leu	Met	Gly	Asn	Leu	Asn	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Thr	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Leu	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Ile
65					70					75				80	
Met	Leu	Arg	Gly	Phe	Leu	Arg	Lys	Gly	Thr	Phe	Ile	Pro	Val	Ala	Gly



Phe	Cys	Asp	Val	Tyr	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asn	Thr	His
			180					185					190		
Ile	Ile	Gly	Leu	Leu	Val	Ile	Ala	Asn	Ser	Gly	Leu	Ile	Ala	Leu	Val
		195					200					205			
Thr	Phe	Val	Val	Leu	Met	Thr	Ser	Tyr	Phe	Phe	Ile	Leu	Tyr	Thr	Ile
	210					215					220				
Arg	Ala	Tyr	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Thr	Val	Val	Val	Leu	Phe	Phe	Ala	Pro	Ala	Leu	Phe	Ile
				245						250				255	
Tyr	Ile	Arg	Pro	Ala	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Val	Phe	Ala	Leu
			260				265						270		
Phe	Tyr	Thr	Ile	Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu
		275					280					285			
Arg	Asn	Thr	Glu	Met	Lys	Asn	Ala	Leu	Arg	Lys	Val	Trp	Gly	His	Gln
	290					295					300				
Gly	Leu	Leu	Lys	Gly	Arg										
305					310										

<210> 2443

<211> 322

<212> PRT

<213> Mus musculus

<400> 2443

His	Thr	Asn	Ser	Thr	Lys	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu	Phe	Ile
			20					25					30		
Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Met	Gly	Leu	Met	Ala	Leu	Ile	Arg
		35				40						45			
Leu	Asp	Ser	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln	Met	Leu
65					70					75					80
Thr	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ile	Gly	Cys	Phe
			85						90					95	
Ile	Gln	Cys	Tyr	Leu	Phe	Ile	Ala	Leu	Leu	Leu	Thr	Glu	Phe	Tyr	Met
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu
		115				120						125			
Arg	Tyr	Ser	Val	Lys	Met	Ser	Arg	Arg	Val	Cys	Ile	Cys	Leu	Ala	Met
	130					135					140				
Cys	Pro	Tyr	Ile	Tyr	Gly	Phe	Ser	Asp	Gly	Leu	Phe	Gln	Ala	Ile	Leu
145					150					155					160
Thr	Phe	Ser	Met	Thr	Phe	Cys	Lys	Ser	Asn	Val	Ile	Asn	His	Phe	Tyr
				165					170					175	
Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Tyr	Lys
			180					185					190		
Lys	Glu	His	Ala	Met	Leu	Ile	Ser	Ala	Ser	Phe	Asn	Leu	Ser	Ser	Ser
		195					200					205			
Leu	Thr	Ile	Ile	Leu	Val	Ser	Tyr	Ala	Phe	Ile	Ile	Ala	Ala	Ile	Leu
	210					215					220				
Arg	Ile	Lys	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Met	Met	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Cys	Met
				245					250					255	
Tyr	Val	Arg	Pro	Pro	Thr	Asp	Lys	Thr	Val	Glu	Glu	Ser	Lys	Ile	Ile



<210> 2445  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2445  
 Met Glu Glu Gly Asn Gln Thr Val Val Ser Glu Phe Ile Phe Gln Gly  
 1 5 10 15  
 Leu Cys Ala Ser Lys Glu Leu Gln Leu Phe Leu Leu Leu Pro Phe Ser  
 20 25 30  
 Ile Leu Tyr Leu Met Ala Val Val Gly Asn Leu Phe Val Val Ile Leu  
 35 40 45  
 Ile Ile Ile Asp His His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Phe Cys Leu Ser Ser Val Thr Thr Pro Lys  
 65 70 75 80  
 Leu Ile Thr Asp Leu Leu Lys Asp Asn Lys Thr Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Met Ser Gln Ile Leu Cys Val Tyr Phe Phe Gly Gly Ser Glu Met  
 100 105 110  
 Val Leu Leu Val Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu His Tyr Ser Ser Ile Met Gly Arg Gln Lys Cys Ile Trp Leu  
 130 135 140  
 Val Val Ile Ser Trp Thr Ile Gly Phe Ile His Ala Met Ser Gln Leu  
 145 150 155 160  
 Ile Leu Ile Leu Asp Leu Pro Phe Cys Gly Pro Arg Val Ile Asp Ser  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Leu Val Met Lys Leu Ala Cys Met Asn Thr  
 180 185 190  
 Asp Thr Leu Glu Ile Leu Ile Asn Ala Asp Ser Gly Val Leu Ala Thr  
 195 200 205  
 Thr Cys Phe Ile Leu Leu Leu Ile Ser Tyr Thr Asn Ile Leu Leu Thr  
 210 215 220  
 Val Gln Leu His Ser Lys Asp Gly Ser Ser Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Thr Ser His Ile Ile Val Val Leu Leu Phe Phe Gly Pro Val Ile Phe  
 245 250 255  
 Ile Tyr Leu Cys Pro Val Ser Ile Thr Trp Val Asp Asn Phe Leu Ala  
 260 265 270  
 Val Phe Tyr Ser Val Ile Thr Pro Leu Leu Asn Pro Ala Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Asp Ile Lys Asn Ala Ile Lys Lys Leu Ile Asn His  
 290 295 300  
 Leu  
 305

<210> 2446  
 <211> 277  
 <212> PRT  
 <213> Mus musculus

<400> 2446  
 Leu Pro Phe Ser Ile Leu Tyr Leu Met Ala Val Val Gly Asn Leu Phe  
 1 5 10 15  
 Val Val Ile Leu Ile Ile Ile Asp His His Leu His Ser Pro Met Tyr  
 20 25 30  
 Phe Leu Leu Ala Asn Leu Ser Phe Ile Asp Phe Cys Leu Ser Ser Val



115	120	125
Met Asp Arg Gln Lys Cys Ile Trp Leu Val Val Ile Ser Trp Ile Val		
130	135	140
Gly Phe Val His Ala Ile Ser Gln Leu Leu Leu Ile Leu Asp Leu Pro		
145	150	155
Phe Cys Gly Pro Arg Val Ile Asp Ser Phe Phe Cys Asn Ile Pro Leu		
165	170	175
Val Met Lys Leu Ala Cys Met Asn Thr Asp Thr Leu Gly Ile Leu Ile		
180	185	190
Asn Ala Asp Ser Gly Ile Leu Ala Thr Tyr Ser Phe Thr Leu Leu Leu		
195	200	205
Ile Ser Tyr Thr Tyr Ile Leu Leu Thr Val Gln His Arg Ser Lys Asp		
210	215	220
Gly Ser Leu Lys Ala Leu Ser Thr Cys Thr Ser His Ile Ile Val Val		
225	230	235
Leu Leu Phe Phe Gly Pro Ile Ile Phe Ile Tyr Leu Trp Pro Val Asn		
245	250	255
Ile Thr Trp Val Asp Lys Phe Leu Ala Val Phe Tyr Thr Val Ile Thr		
260	265	270
Pro Leu Leu Asn Pro Ala Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys		
275	280	285
Asn Ala Ile Lys Asn		
290		

<210> 2448

<211> 313

<212> PRT

<213> Mus musculus

<400> 2448

Leu His Gly Glu Thr Glu Pro Ser Pro Val Val Lys Asp Phe Ile Leu	
1	5
Ile Gly Ile Thr Asn Arg Pro Glu Leu Lys Gly Pro Leu Phe Gly Leu	
20	25
Phe Leu Ile Ile Tyr Leu Ile Ser Leu Met Gly Asn Met Gly Met Ile	
35	40
Ile Leu Thr Ile Val Asp Pro Arg Leu Gln Thr Pro Met Tyr Phe Phe	
50	55
Leu Lys His Leu Ala Val Thr Asp Leu Gly Tyr Ser Thr Ala Val Gly	
65	70
Pro Lys Met Leu Glu Asn Phe Val Val Asn Gln Asn Thr Ile Ser Tyr	
85	90
Tyr Leu Cys Ala Leu Gln Leu Ala Cys Phe Leu Leu Phe Ile Thr Cys	
100	105
Glu Leu Phe Ile Leu Ser Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile	
115	120
Cys Asn Pro Leu Leu Tyr Asn Val Ile Met Ser Lys Lys Lys Cys Trp	
130	135
Leu Leu Ile Val Ile Ala Tyr Leu Tyr Gly Leu Phe Leu Ser Leu Ile	
145	150
Ile Thr Leu Lys Met Phe Arg Leu Ser Phe Cys Ser Tyr Asn Ile Ile	
165	170
Asn His Phe Phe Cys Asp Cys Ile Pro Leu Ile Pro Leu Leu Cys Ser	
180	185
Asn Thr His Glu Ile Gln Leu Ile Leu Val Phe Ala Ile Phe Asp	
195	200
Ser Ile Cys Ser Leu Leu Val Val Leu Val Ser Tyr Leu Leu Ile Leu	
210	215
	220



Ile	Thr	Ile	Leu	Arg	Met	Asn	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe
225					230					235					240
Ala	Asn	Cys	Gly	Ser	His	Ile	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr
				245					250					255	
Leu	Ile	Ser	Met	Tyr	Leu	Gln	Pro	Asn	Tyr	Ser	His	Ser	Phe	Asp	Thr
			260					265					270		
Asp	Lys	Leu	Ala	Ser	Ile	Phe	Tyr	Thr	Met	Ile	Ile	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asn	Ala	Gly	Gln
	290					295					300				
Arg	Ile	Trp	Lys	Lys	Leu	Cys	Lys	Ile							
305					310										

<210> 2449

<211> 316

<212> PRT

<213> Mus musculus

<400> 2449

Met	Asp	Leu	Lys	Asn	Lys	Thr	Thr	Ser	Ser	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Phe	Pro	Ser	Cys	Arg	Tyr	Pro	Asn	Leu	Ile	Ser	Phe	Ile	Leu	Leu	
			20				25					30			
Ile	Tyr	Thr	Leu	Ala	Ser	Ala	Gly	Asn	Ser	Leu	Leu	Ile	Leu	Leu	Ile
		35					40					45			
Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln
	50					55				60					
Leu	Ser	Val	Ile	Asp	Leu	Ala	Tyr	Ile	Ser	Cys	Thr	Val	Pro	Lys	Ala
65				70					75						80
Ala	Ile	Asn	Tyr	Phe	Thr	Gly	Arg	Arg	Asn	Ile	Ser	Phe	Phe	Ala	Cys
			85						90					95	
Ala	Thr	Gln	Met	Phe	Ser	Phe	Leu	Thr	Leu	Gly	Leu	Ala	Glu	Cys	Ile
			100					105					110		
Leu	Leu	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	Pro
		115					120					125			
Leu	Arg	Tyr	Thr	Ile	Leu	Met	Ser	Pro	Lys	Val	Cys	Leu	Met	Met	Ala
	130					135					140				
Ala	Ser	Thr	Trp	Ile	Gly	Ala	Val	Thr	Ala	Ala	Leu	Val	His	Thr	Val
145					150				155						160
Tyr	Pro	Met	Asn	Phe	Pro	Ile	Cys	Gly	Ser	Arg	Glu	Ile	Asn	His	Tyr
			165					170						175	
Phe	Cys	Glu	Met	Pro	Ala	Ile	Leu	Arg	Met	Ser	Cys	Val	Asp	Thr	Ser
			180					185					190		
Val	Tyr	Glu	Met	Val	Lys	Phe	Val	Ser	Thr	Ile	Ile	Phe	Leu	Leu	Thr
	195						200					205			
Pro	Phe	Thr	Leu	Ile	Leu	Thr	Ser	Tyr	Thr	Leu	Ile	Phe	Leu	Thr	Val
	210					215					220				
Leu	Arg	Met	Asn	Ser	Pro	Lys	Gly	Arg	Asn	Lys	Ala	Leu	Ala	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Tyr	Phe	Gly	Gln	Ala	Ile	Phe
			245						250					255	
Ile	Tyr	Met	Thr	Pro	Thr	Ser	Ser	His	Thr	Pro	Asp	Gln	Asp	Gln	Val
		260						265					270		
Gly	Ala	Val	Leu	Gly	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Gln	Lys	Cys	Thr
	290					295					300				
Gly	Arg	Cys	Cys	Ser	Arg	Asp	Arg	Val	Gly	Ser	Leu				

305

310

315

&lt;210&gt; 2450

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2450

Met	Gly	Ala	Thr	Asn	Asp	Ser	Thr	Phe	Ser	His	Phe	Ile	Leu	Thr	Gly
1				5					10				15		
Phe	Ser	Asp	Arg	Pro	Glu	Leu	Glu	Arg	Val	Leu	Phe	Ala	Ile	Leu	Leu
			20					25					30		
Pro	Ala	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Ser	Thr	Ile	Ile	Leu	Val
		35					40					45			
Ser	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Ser	Phe	Thr	Ser	Ser	Ser	Ile	Pro	Gln
65					70					75				80	
Leu	Leu	Tyr	Asn	Leu	Ser	Gly	Pro	Asp	Lys	Thr	Ile	Ser	Tyr	Val	Gly
			85						90					95	
Cys	Ala	Leu	Gln	Leu	Val	Leu	Phe	Leu	Gly	Leu	Gly	Gly	Val	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Gly	Leu
	130					135					140				
Val	Ser	Val	Ala	Trp	Ser	Cys	Gly	Val	Ala	Asn	Ser	Leu	Ala	Met	Ser
145					150					155				160	
Pro	Ala	Thr	Leu	Ser	Leu	Pro	Arg	Cys	Gly	His	His	Arg	Val	Asp	His
				165					170					175	
Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Arg	Met	Ala	Cys	Val	Asn	Thr
			180					185					190		
Ala	Val	Val	Glu	Gly	Ile	Ala	Phe	Ile	Leu	Ala	Ile	Gly	Ile	Val	Leu
		195					200					205			
Ser	Pro	Leu	Val	Phe	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Val	Arg	Ala
	210					215					220				
Val	Leu	Arg	Ile	Ser	Ser	Ala	Ala	Gly	Arg	Gln	Lys	Ala	Phe	Asn	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Asn	Ile	Ile
				245					250					255	
Tyr	Met	Tyr	Met	Gln	Pro	Gly	Asn	Ser	Ser	Ser	Gln	Asp	Gln	Gly	Lys
			260					265					270		
Phe	Leu	Thr	Leu	Phe	Tyr	Asn	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu
	290					295					300				
Leu	Leu	Gly	Ser	Arg	Glu	Thr	Gly	Lys	Val	Arg					
305					310					315					

&lt;210&gt; 2451

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2451

Met	Glu	Gly	Ala	Asn	Leu	Ser	Gly	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	

Leu	Ser	Gln	Asp	Pro	Arg	Gln	Gln	Gln	Leu	Leu	Phe	Ser	Ala	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Leu	Thr	Gly	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ala	Ala	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ala	Phe	Val	Asp	Val	Cys	Phe	Thr	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ala	Asn	His	Val	Ser	Gly	His	Lys	Gly	Ile	Ser	Tyr	Ser	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Met	Phe	Phe	Phe	Ile	Trp	Phe	Ala	Gly	Ile	Asp	Ser
			100					105					110		
Phe	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ser	Ile	Thr	Pro	Arg	Leu	Cys	Gly	Phe	Leu
		130				135					140				
Val	Thr	Ala	Ser	Trp	Ala	Ser	Ala	Phe	Ala	Asn	Ala	Leu	Thr	His	Thr
145					150					155					160
Val	Leu	Leu	Thr	Arg	Leu	Leu	Phe	Cys	Gly	His	Asn	Gln	Val	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Ser	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Leu	Asp	Thr
			180					185					190		
Ser	Leu	Asn	Asp	Ile	Met	Val	Tyr	Thr	Val	Gly	Ala	Leu	Pro	Ile	Ile
		195					200					205			
Thr	Pro	Phe	Val	Gly	Ile	Leu	Thr	Ser	Tyr	Thr	Arg	Ile	Phe	Thr	Ala
		210				215					220				
Val	Leu	Arg	Ile	Pro	Ser	Thr	Gly	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Ile
				245					250					255	
Gly	Val	Tyr	Phe	Ser	Pro	Thr	Ser	Ser	His	Thr	Ala	Gln	Lys	Asp	Thr
			260					265					270		
Ala	Ala	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Met	Thr	Phe
		290				295					300				
Val	Arg	Arg	Thr	Ala	Val	Leu	Val	Arg							
305					310										

<210> 2452

<211> 326

<212> PRT

<213> Mus musculus

<400> 2452

Met	Phe	Ser	Asp	Asp	Pro	Val	Gln	Gln	Leu	Ser	Met	Ala	Met	Trp	Leu
1				5					10					15	
Asn	Gln	Ser	Ser	Thr	Asp	Asp	Phe	Ile	Leu	Leu	Gly	Ile	Phe	Ser	Tyr
			20					25					30		
Ser	Pro	Arg	Asp	Leu	Leu	Leu	Phe	Ser	Val	Val	Met	Leu	Val	Phe	Thr
		35					40				45				
Ala	Ala	Leu	Phe	Gly	Asn	Ala	Leu	Leu	Ile	Leu	Leu	Ile	Cys	Thr	Asp
		50				55					60				
Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu	Ser	Leu
65					70					75					80
Met	Asp	Ile	Met	Leu	Val	Cys	Thr	Asn	Val	Pro	Lys	Met	Ala	Val	Asn
				85					90					95	
Phe	Leu	Ser	Gly	Lys	Lys	Ser	Ile	Ser	Phe	Val	Gly	Cys	Gly	Ile	Gln

Ile	Gly	Leu	Phe	Val	Cys	Leu	Val	Gly	Ser	Glu	Gly	Leu	Leu	Leu	Gly
		100						105						110	
Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	His	Pro	Leu	Arg	Tyr
		115						120					125		
Pro	Val	Leu	Met	Asn	Gln	Lys	Val	Cys	Leu	Gln	Ile	Ile	Gly	Ser	Ser
145					150					155					160
Trp	Ala	Phe	Gly	Ile	Ala	Asp	Gly	Leu	Val	Gln	Met	Val	Val	Val	Met
				165					170					175	
Thr	Phe	Pro	Tyr	Cys	Ser	Leu	Arg	Glu	Val	Asp	His	Phe	Phe	Cys	Glu
			180					185					190		
Met	Leu	Ser	Leu	Leu	Lys	Leu	Ala	Cys	Val	Asp	Thr	Ser	Leu	Phe	Glu
		195					200					205			
Lys	Ile	Val	Phe	Phe	Cys	Cys	Ile	Phe	Met	Leu	Leu	Phe	Pro	Phe	Ser
	210					215					220				
Ile	Ile	Val	Ala	Ser	Tyr	Thr	Arg	Ile	Leu	Gly	Thr	Val	Leu	His	Met
225					230					235					240
His	Ser	Ala	Lys	Ser	Gln	Lys	Lys	Ala	Leu	Ala	Thr	Cys	Ser	Ser	His
				245					250					255	
Met	Ala	Ala	Val	Ser	Phe	Phe	Tyr	Gly	Ala	Ala	Met	Phe	Ile	Tyr	Leu
			260					265					270		
Arg	Pro	Arg	Gln	Tyr	Arg	Thr	Pro	Ser	Gln	Asp	Lys	Met	Val	Ser	Ile
		275					280					285			
Phe	Tyr	Thr	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	290					295					300				
Arg	Asn	Arg	Asp	Val	Ile	Gly	Ala	Leu	Gln	Lys	Gly	Leu	Asp	Arg	Cys
305					310				315						320
Arg	Val	Gly	Ser	Gln	Pro										
				325											

<210> 2453

<211> 312

<212> PRT

<213> Mus musculus

<400> 2453

Met	Leu	Met	Ala	Met	Glu	Asn	Asp	Ser	Ser	Val	Thr	Glu	Phe	Val	Phe
1				5					10					15	
Met	Gly	Leu	Thr	Glu	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Val
			20					25					30		
Phe	Leu	Leu	Asn	Tyr	Thr	Ala	Thr	Val	Met	Gly	Asn	Leu	Ser	Leu	Val
		35					40					45			
Val	Leu	Ile	Cys	Leu	Asn	Ser	His	Leu	His	Asn	Pro	Met	Tyr	Phe	Phe
	50					55				60					
Leu	Phe	Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Cys	Thr
65					70				75						80
Pro	Lys	Met	Leu	Met	Gly	Phe	Val	Ser	Glu	Lys	Ser	Ile	Ile	Ser	Tyr
			85						90					95	
Thr	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Asn	Ser
			100					105					110		
Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met	Val	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Lys	Pro	Leu	Val	Tyr	Ala	Ile	Leu	Met	Ser	Pro	Arg	Met	Cys	Ser
	130					135					140				
Leu	Leu	Met	Ile	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ala	Ser	Ala	Met	Ala
145					150					155					160
His	Thr	Gly	Cys	Met	Ile	Arg	Leu	Lys	Phe	Cys	Asp	Leu	Asn	Ile	Ile
				165					170					175	

Asn	His	Tyr	Met	Cys	Glu	Ile	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser
			180					185					190		
Ser	Thr	Tyr	Ala	Asn	Glu	Leu	Val	Ser	Ser	Leu	Ile	Ala	Cys	Ile	Val
		195					200					205			
Val	Ile	Val	Ser	Gly	Leu	Val	Ile	Leu	Met	Ser	Tyr	Ala	Ser	Ile	Leu
	210					215					220				
Leu	Asn	Val	Val	Gln	Met	Ser	Ser	Ala	Thr	Gly	Trp	Ser	Lys	Ala	Met
225					230					235					240
Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Leu	Phe	Tyr	Gly	Ser
			245						250					255	
Gly	Leu	Leu	Thr	Tyr	Val	Lys	Pro	Ala	Ser	Ala	Glu	Ser	Val	Asp	Gln
			260					265						270	
Gly	Lys	Phe	Phe	Ser	Val	Phe	Tyr	Thr	Leu	Met	Val	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Ala	Lys
	290					295					300				
Arg	Thr	Met	Lys	Arg	Ile	Thr	Ile								
305					310										

<210> 2454

<211> 309

<212> PRT

<213> Mus musculus

<400> 2454

Met	Glu	Leu	Lys	Asn	Asp	Thr	Gln	Ile	Ser	Lys	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Ile	Ser	Glu	Asp	Pro	Leu	Trp	Gln	Pro	Phe	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Phe	Met	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Ala
		35					40					45			
Thr	Ile	Thr	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Phe	Thr	Ser	Ala	Ser	Ile	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Ile	Gln	Thr	Lys	Asn	Lys	Val	Ile	Thr	Tyr	Glu	Gly
			85						90					95	
Cys	Ile	Ser	Gln	Val	Phe	Phe	Phe	Ile	Leu	Phe	Gly	Val	Leu	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Asn	Cys	Arg	Leu	Cys	Gly	Phe	Leu
	130					135					140				
Val	Leu	Gly	Ser	Trp	Val	Thr	Thr	Ala	Leu	Asn	Ser	Leu	Leu	Gln	Ser
145					150					155				160	
Ser	Met	Ala	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Lys	Ile	Pro	His
			165						170					175	
Phe	Val	Cys	Glu	Leu	Asn	Gln	Leu	Val	Leu	Leu	Ala	Cys	Asn	Asp	Thr
			180					185					190		
Phe	Pro	Asn	Asp	Met	Val	Met	Tyr	Phe	Ala	Ala	Ile	Leu	Leu	Gly	Gly
		195					200					205			
Gly	Pro	Leu	Ala	Gly	Ile	Leu	Tyr	Ser	Tyr	Ser	Lys	Ile	Val	Ser	Ser
	210					215					220				
Ile	Arg	Ala	Ile	Ser	Ser	Ser	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Leu	Leu
			245						250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ser	Phe	Thr	Gln	Asn	Ser	His	Ser	Thr	Ala

			260					265				270					
Arg	Ala	Ser	Val	Met	Tyr	Ser	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Leu	Met	Gly	Ala	Leu	Arg	Arg	Leu		
	290					295					300						
Leu	Arg	Arg	Lys	Ser													
305																	

<210> 2455  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2455

Met	Trp	Val	Val	Leu	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile		
1				5					10					15			
Leu	Ile	Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile		
			20					25					30				
Val	Phe	Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile		
		35					40					45					
Ile	Met	Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50					55					60						
Phe	Leu	Ser	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Tyr	Val	Thr	Thr	Thr		
65					70					75					80		
Met	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser		
				85					90					95			
Phe	Val	Gly	Cys	Trp	Leu	Gln	Met	Phe	Val	Phe	Ser	Ala	Leu	Gly	Ile		
			100					105					110				
Thr	Glu	Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala		
		115					120					125					
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys		
	130					135					140						
Ile	His	Leu	Thr	Ala	Gly	Ser	Trp	Val	Cys	Gly	Leu	Phe	Ser	Ser	Leu		
145					150					155					160		
Leu	His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg		
				165					170					175			
Val	Asn	His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys		
			180					185					190				
Met	Asp	Thr	His	Val	Ile	Glu	Met	Val	Asp	Phe	Val	Leu	Ser	Val	Phe		
	195					200						205					
Val	Ile	Val	Ile	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Gly	Ile		
	210					215					220						
Ala	Lys	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Cys	Lys	Ala		
225					230					235					240		
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala		
			245						250					255			
Pro	Ala	Thr	Tyr	Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu		
			260					265					270				
Arg	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Asn	Thr	Phe	Thr	Ala	Leu	Leu		
	275					280						285					
Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe		
	290					295					300						
Phe	Lys	Val	Met	Gly	His	Gly	Arg	Met	Asp	Tyr							
305					310					315							

<210> 2456  
 <211> 312

<212> PRT

<213> Mus musculus

<400> 2456

Glu	Thr	Arg	Asn	Gln	Thr	Ile	Ile	Ser	Asp	Phe	Leu	Leu	Thr	Gly	Phe
1				5					10					15	
Ser	Asp	His	Pro	Glu	Gln	Gln	Pro	Leu	Phe	Thr	Leu	Phe	Leu	Gly	
			20					25				30			
Met	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Phe	Ile	Ile	Leu	Ala	Ile
		35					40					45			
Val	Ser	Asp	Gln	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
	50					55					60				
Leu	Ser	Phe	Ile	Asp	Asn	Cys	Leu	Thr	Cys	Thr	Ile	Val	Pro	Lys	Val
65					70					75					80
Leu	Thr	Asn	Ile	Gln	Thr	Gln	His	Gln	Thr	Ile	Ser	His	Thr	Gly	Cys
			85						90					95	
Leu	Leu	Gln	Met	Tyr	Phe	Phe	Met	Thr	Met	Ala	Met	Leu	Asp	Asp	Phe
			100						105				110		
Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu	Pro
		115					120					125			
Leu	His	Tyr	Thr	Thr	Ile	Met	Cys	Pro	Gln	Arg	Cys	Leu	Leu	Leu	Val
	130					135					140				
Ala	Thr	Ser	Trp	Leu	Cys	Ser	Asn	Leu	Leu	Ala	Leu	Ser	Leu	Ile	Leu
145					150					155					160
Gln	Met	Ala	Gln	Val	Ser	Phe	Cys	Ala	Ser	His	Ser	Ile	Pro	His	Phe
				165					170					175	
Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	His
			180					185					190		
Thr	Phe	Gln	Leu	Ile	Met	Phe	Ala	Glu	Ala	Ala	Leu	Ser	Gly	Val	Val
		195					200					205			
Pro	Leu	Thr	Cys	Val	Leu	Val	Ser	Tyr	Ala	His	Ile	Met	Asn	Thr	Ile
	210					215					220				
Leu	Lys	Ile	Pro	Ser	Ser	Gly	Gly	Lys	His	Lys	Val	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Phe	Leu
				245					250					255	
Val	Tyr	Phe	Gln	Pro	Ser	Ser	Ser	Tyr	Ser	Glu	Asn	Thr	Gly	Ile	Val
			260					265					270		
Ala	Ser	Val	Val	Tyr	Thr	Met	Val	Thr	Pro	Met	Ile	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Trp	Lys	Leu	Phe
	290					295					300				
Gly	Leu	Gly	Lys	His	Cys	Asn	Leu								
305					310										

<210> 2457

<211> 310

<212> PRT

<213> Mus musculus

<400> 2457

Met	Asn	Asn	Ser	Thr	Leu	Val	Thr	Glu	Phe	Leu	Leu	Glu	Val	Phe	Ala
1				5					10					15	
Glu	Ser	Cys	Glu	Leu	Arg	Ile	Leu	Leu	Ser	Val	Leu	Phe	Leu	Leu	Val
			20					25				30			
Tyr	Leu	Gly	Ser	Leu	Phe	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Val	Thr	Thr
		35					40					45			
Val	Asp	Gln	Thr	Leu	Asn	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu

50		55		60
Ser Ile Val Asp Met Cys Tyr Val Ser Val Thr Val Pro Asn Ala Cys				
65		70		80
Phe Asn Ser Leu Thr Gly Gln Arg Asn Ile Ser Val Thr Gly Cys Ala				
	85		90	95
Ala Gln Ile Phe Phe Val Phe Phe Cys Ala Cys Val Glu Met Phe Phe				
	100		105	110
Leu Thr Ile Met Ala Gln Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu				
	115		120	125
Leu Tyr Pro Val Ile Met Asn His Gln Phe Cys Val Gln Met Thr Leu				
	130		135	140
Ala Ser Leu His Ser Ser Leu Ile Ile Ala Ser Val His Thr Phe Lys				
145		150		160
Thr Phe Gln Leu Ser Phe Cys His Ser Asn Val Val Pro Gln Phe Phe				
	165		170	175
Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr Phe Asn				
	180		185	190
Asn Lys Leu Leu Met Leu Ile Ser Ala Ile Ile Ile Gly Cys Ser Cys				
	195		200	205
Phe Thr Phe Ile Ala Val Ser Tyr Phe Arg Ile Leu Ser Thr Val Leu				
	210		215	220
Lys Val Pro Val Lys Gly Glu Arg Gly Lys Ala Phe Ser Thr Cys Val				
225		230		240
Pro His Ile Val Val Val Ser Val Phe Leu Ser Ser Ser Thr Tyr Val				
	245		250	255
Tyr Leu Arg Pro Pro Val Pro Thr Leu Glu Val Val Lys Glu Met Ala				
	260		265	270
Leu Ser Val Ser Tyr Thr Ile Val Pro Pro Phe Leu Asn Pro Ile Ile				
	275		280	285
Tyr Ser Leu Arg Asn Arg Gln Ile Lys Glu Ala Val Lys Lys Val Ile				
	290		295	300
Leu Arg Ile Ser Leu Val				
305		310		

<210> 2458

<211> 313

<212> PRT

<213> Mus musculus

<400> 2458

Phe Phe Arg Asn Thr Glu Tyr Lys Asn Gln Thr Phe Ala Ser Glu Phe				
1		5		10
Ile Leu Leu Gly Leu Thr Asp Asp Pro Glu Leu Gln Leu Ile Leu Phe				
	20		25	30
Gly Ile Phe Leu Phe Met Tyr Leu Val Thr Val Leu Gly Asn Leu Ile				
	35		40	45
Ile Ile Cys Ala Val Ser Leu His Pro Lys Leu His Thr Pro Met Tyr				
	50		55	60
Phe Phe Leu Ser Asn Leu Ser Phe Thr Asp Ile Cys Phe Ile Thr Ser				
65		70		80
Thr Val Pro Lys Met Leu Val Asn Ile Gln Lys Gln Asn Asn Ala Ile				
	85		90	95
Ser Tyr Pro Asp Cys Leu Thr Gln Met Tyr Phe Val Ile Phe Leu Gly				
	100		105	110
Gly Met Glu Asn Phe Leu Leu Ala Met Ala Tyr Asp Arg Tyr Val				
	115		120	125
Ala Ile Cys His Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Ser Ile				
	130		135	140



Cys	Ile	Leu	Leu	Thr	Leu	Leu	Ser	Val	Leu	Ser	Ser	Thr	Ile	Asp	Ala	
145					150					155					160	
Leu	Leu	His	Ser	Leu	Leu	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Tyr	Leu	
				165					170						175	
Lys	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Ala	His	Ile	Ile	Lys	Leu	Ser	
			180					185					190			
Cys	Ser	Asp	Thr	Leu	Ile	Asn	Asn	Ile	Val	Val	Tyr	Leu	Ala	Thr	Phe	
		195					200					205				
Ile	Phe	Gly	Gly	Leu	Pro	Phe	Trp	Gly	Ile	Ile	Leu	Ser	Tyr	Val	Gln	
	210					215					220					
Ile	Val	Tyr	Ser	Val	Leu	Lys	Lys	Pro	Ser	Val	Arg	Gly	Ser	Tyr	Lys	
225					230					235					240	
Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	
				245					250					255		
Gly	Ser	Val	Ile	Gly	Val	Tyr	Ile	Ser	Phe	Ala	Val	Thr	Asp	Ser	Ser	
			260					265					270			
Arg	Lys	Ala	Ala	Val	Ala	Ser	Val	Leu	Tyr	Thr	Val	Val	Pro	Gln	Met	
		275					280					285				
Leu	Asn	Pro	Phe	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Ala	
	290					295					300					
Val	Arg	Lys	Leu	Cys	Gly	Gly	Ile	Leu								
305					310											

<210> 2459

<211> 309

<212> PRT

<213> Mus musculus

<400> 2459

Met	Ala	Asp	Ile	His	Asn	Val	Thr	Glu	Phe	Phe	Phe	Leu	Gly	Leu	Ser	
1				5					10					15		
Ser	Asn	Gln	Glu	Val	Gln	Arg	Val	Cys	Phe	Val	Ile	Phe	Leu	Phe	Leu	
		20						25				30				
Tyr	Met	Ala	Ile	Val	Leu	Gly	Asn	Leu	Leu	Met	Val	Val	Ile	Val	Ala	
		35					40					45				
Val	Ser	Arg	Asn	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Ser	Leu	
	50					55					60					
Ser	Phe	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Thr	Ala	Pro	Lys	Leu	Ile	
65					70					75					80	
Val	Asp	Leu	Leu	Ala	Glu	Lys	Lys	Ser	Ile	Ser	Val	Trp	Gly	Cys	Met	
				85					90					95		
Ala	Gln	Leu	Phe	Phe	Met	His	Phe	Phe	Gly	Gly	Ile	Glu	Met	Phe	Leu	
			100					105					110			
Leu	Thr	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
		115					120					125				
His	Tyr	Thr	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Thr	Val	Leu	Val	Gly	
		130				135					140					
Met	Ala	Trp	Met	Gly	Gly	Phe	Val	His	Ser	Leu	Ala	Gln	Val	Leu	Leu	
145				150					155						160	
Ile	Phe	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Tyr	Phe	
				165					170					175		
Cys	Asp	Val	Leu	Pro	Val	Leu	Lys	Leu	Val	Cys	Ser	Asp	Thr	Phe	Leu	
		180						185					190			
Ile	Gly	Leu	Leu	Ile	Val	Val	Asn	Gly	Gly	Thr	Leu	Ser	Val	Ile	Ser	
		195					200					205				
Phe	Val	Val	Leu	Leu	Ser	Ser	Tyr	Ala	Val	Ile	Leu	Phe	His	Leu	Arg	
	210					215					220					
Thr	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	



<210> 2461  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2461

Val	Arg	Arg	Glu	Asn	Gln	Ser	Thr	Val	Phe	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Arg	Pro	Glu	His	Gln	Asn	Val	Phe	Phe	Thr	Met	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Ser	Asp	Ile	Ser	Leu	Ser	Ser	Ile	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Met	Asn	Ile	Gln	Ala	Gln	His	His	Ser	Ile	Ser	Tyr	Lys	Gly
			85						90					95	
Cys	Ile	Ser	Gln	Met	Tyr	Phe	Phe	Ile	Leu	Phe	Val	Cys	Leu	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Ile	Thr	Val	Met	Arg	Glu	Glu	Leu	Cys	Val	Cys	Leu
	130					135					140				
Val	Ala	Gly	Ser	Trp	Phe	Phe	Ser	Cys	Val	His	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Leu	Ile	Gln	Leu	Ser	Phe	Cys	Ala	Ser	Asn	Thr	Val	Pro	Asn
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Thr	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Ile
			180				185						190		
Ser	Leu	Asn	Lys	Leu	Val	Ile	Phe	Thr	Glu	Gly	Gly	Leu	Leu	Phe	Ile
		195					200					205			
Leu	Pro	Leu	Ser	Ser	Ile	Met	Gly	Ser	Tyr	Ile	Leu	Ile	Gly	Arg	Thr
	210					215					220				
Ala	Leu	Lys	Ala	Pro	Ser	Thr	Lys	Arg	Phe	Ile	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Thr	Leu	Ala
			245						250					255	
Gly	Glu	Tyr	Phe	Ser	Ser	Phe	Gln	Asn	Ser	Ser	Asp	Lys	Asp	Ile	
			260				265					270			
Val	Ala	Ser	Val	Ile	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Ser	Asp	Ile	Lys	Gln	Ala	Leu	Glu	Ile	Val
	290				295						300				
Val	Thr	Lys	Ile	Asn	Cys	Phe	Lys								
305					310										

<210> 2462  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2462

Met	Ser	Gly	Trp	Ser	Asn	Gly	Thr	Tyr	Asn	Glu	Ser	Tyr	Thr	Ser	Phe
1				5					10					15	
Leu	Leu	Met	Gly	Phe	Pro	Gly	Met	Gln	Glu	Ala	Arg	Ala	Leu	Leu	Val
			20					25					30		
Leu	Pro	Phe	Leu	Ser	Leu	Tyr	Leu	Val	Ile	Leu	Phe	Thr	Asn	Ala	Leu



Leu	His	Tyr	Pro	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Ile	Gln	Val	Ala
130						135					140				
Ile	Ser	Ile	Trp	Ala	Ile	Pro	Phe	Val	His	Ala	Leu	Val	His	Ser	Ile
145					150					155					160
Leu	Thr	Ser	Gln	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Gln	Ile	His	His	Phe
				165					170					175	
Phe	Cys	Asp	Val	Lys	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Gly	Asn	Thr	Glu
			180					185					190		
Leu	Asn	Arg	Trp	Leu	Leu	Asn	Thr	Phe	Thr	Gly	Thr	Phe	Ala	Ile	Gly
		195					200					205			
Leu	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Ile	Thr	Tyr	Leu
210					215						220				
Phe	Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Met	Val	Val	Met	Ile	Phe	Tyr	Ala	Pro	Val	Leu
				245					250					255	
Phe	Ile	Tyr	Ile	Asn	Pro	Asp	Ser	Gly	Ser	Ser	Leu	Glu	Lys	Asp	Arg
			260					265					270		
Ile	Ile	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Gly	Ala	Leu	Asn	Arg	Lys
290						295					300				
Leu	Arg	Ile	Leu	Leu											
305															

<210> 2464  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2464

Met	Ile	Leu	Val	Asn	Lys	Ser	His	Pro	Glu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ala	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Ile	Ile	Leu	Leu
			20					25					30		
Val	Thr	Tyr	Pro	Thr	Ala	Met	Ile	Gly	Asn	Ile	Ala	Ile	Ile	Leu	Met
		35					40					45			
Ser	Ile	Leu	Asp	Pro	Cys	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Thr
		50				55				60					
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Met	Leu	Ile	Asn	Leu	Trp	Gly	Ser	Thr	Lys	Thr	Ile	Ser	Tyr	Leu	Arg
			85						90					95	
Cys	Val	Val	Gln	Leu	Tyr	Phe	Phe	His	Thr	Met	Gly	Gly	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Ala	Leu	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115						120				125			
Pro	Leu	His	Tyr	Thr	Leu	Ile	Met	Asn	Arg	Arg	Asn	Cys	Leu	Leu	Leu
		130				135					140				
Val	Ser	Thr	Val	Trp	Leu	Thr	Gly	Ile	Ser	Tyr	Ala	Val	Ser	Glu	Ala
145					150					155					160
Thr	Val	Thr	Leu	Gln	Leu	Pro	Leu	Cys	Gly	His	Asn	Lys	Met	Asp	His
			165						170					175	
Leu	Val	Cys	Glu	Ile	Pro	Ile	Leu	Ile	Lys	Thr	Ala	Cys	Gly	Glu	Lys
			180					185					190		
Glu	Thr	Asn	Glu	Leu	Ala	Leu	Ser	Val	Ile	Cys	Ile	Phe	Leu	Leu	Ala
		195					200					205			
Val	Pro	Leu	Cys	Leu	Ile	Leu	Ala	Ser	Tyr	Ala	Ser	Ile	Gly	His	Ala

210		215		220
Val Phe Lys Ile Lys Ser	Ile Glu Gly Arg Lys	Lys Lys Ala Phe Gly Thr		
225		230		240
Cys Ser Ser His Leu Ile	Val Val Leu Leu Phe Tyr Gly Pro Gly Ile			
		245		255
Ser Met Tyr Leu Gln Pro	Pro Ser Ser Ile Thr Lys Asp Gln Pro Lys			
		260		270
Phe Met Ala Leu Phe Tyr Gly	Val Val Thr Pro Thr Leu Asn Pro Phe			
		275		285
Ile Tyr Thr Leu Arg Asn Lys Asp	Val Lys Gly Ala Leu Gly Asn Leu			
		290		300
Phe Arg Asn Ile Phe Ile Pro Lys				
305		310		

<210> 2465

<211> 314

<212> PRT

<213> Mus musculus

<400> 2465

Met Glu Asp Met Pro Ala Gly Asn His Cys Thr Val Thr Val Phe Phe				
1	5	10	15	
Leu Ala Gly Leu Ser Glu Gln Ser Glu Leu Gln Leu Pro Leu Phe Leu				
	20	25	30	
Phe Phe Thr Gly Ile Tyr Leu Ile Thr Val Ser Gly Asn Leu Gly Met				
	35	40	45	
Ile Ile Leu Ile Gly Leu Ser Ser Asn Leu His Thr Pro Met Tyr Tyr				
	50	55	60	
Phe Leu Ser Ser Leu Ser Phe Ile Asp Phe Gly Gln Ser Thr Val Val				
65	70	75	80	
Thr Pro Lys Met Leu Val Ser Phe Leu Thr Glu Lys Asn Leu Ile Thr				
	85	90	95	
Tyr Pro Glu Cys Leu Ala Gln Leu Tyr Phe Ala Ile Ile Phe Gly Thr				
	100	105	110	
Ala Glu Ser Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala				
	115	120	125	
Ile Cys Asn Pro Leu Val Tyr Asn Ile Ala Met Ser Ser Gln Ile Tyr				
	130	135	140	
Cys Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Phe Cys Ala Ser				
145	150	155	160	
Val Asn Met Gly Phe Met Phe Arg Ile Gln Phe Cys Lys Ser Asp Val				
	165	170	175	
Ile Asn His Tyr Phe Cys Asp Phe Leu Pro Leu Leu Lys Leu Ala Cys				
	180	185	190	
Ser Asn Thr Tyr Val Ser Glu Met Leu Ile Leu Phe Phe Gly Thr Leu				
	195	200	205	
Asn Ile Phe Val Pro Met Leu Thr Ile Ile Thr Ser Tyr Ile Ser Ile				
	210	215	220	
Ile Ser Ser Ile Leu Arg Ile Ser Ser Ser Glu Gly Arg Ser Lys Ala				
225	230	235	240	
Phe Ser Thr Cys Ser Ser His Ile Ser Ala Val Ala Val Phe Tyr Gly				
	245	250	255	
Ser Thr Ala Phe Val Tyr Leu Gln Pro Ser Arg Val Ser Ser Ile Asp				
	260	265	270	
Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Thr Val Val Pro Met Leu				
	275	280	285	
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Ser Val Ala Met				
	290	295	300	

Lys Lys Ile Leu Glu Arg Lys Arg Phe Met  
 305 310

<210> 2466  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2466  
 Met Glu Asp Met Ala Ala Gly Asn Gln Cys Thr Val Ala Glu Phe Phe  
 1 5 10 15  
 Leu Ala Gly Leu Ser Glu Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu  
 20 25 30  
 Leu Phe Thr Gly Ile Tyr Thr Val Ala Gly Asn Leu Gly Met Ile Thr  
 35 40 45  
 Leu Ile Gly Leu Ser Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu  
 50 55 60  
 Ser Ser Leu Ser Phe Ile Asp Phe Cys Gln Ser Thr Val Ile Thr Pro  
 65 70 75 80  
 Lys Met Leu Val Ser Phe Leu Thr Glu Lys Asn Ile Ile Phe Tyr Ser  
 85 90 95  
 Gly Cys Met Ala Gln Leu Tyr Phe Phe Ile Ile Phe Gly Val Ala Glu  
 100 105 110  
 Cys Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Tyr Gln Ile Tyr Ser Ser  
 130 135 140  
 Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Val Cys Ser Ser Val Ile  
 145 150 155 160  
 Thr Gly Phe Met Leu Arg Ile Gln Phe Cys Lys Leu Asp Val Ile Asn  
 165 170 175  
 His Tyr Phe Cys Asp Leu Leu Pro Leu Leu Lys Leu Ala Arg Ser Asn  
 180 185 190  
 Thr Tyr Ile Asn Glu Met Leu Thr Leu Phe Val Ser Met Phe Asn Ile  
 195 200 205  
 Cys Val Pro Val Met Thr Ile Ile Thr Ser Tyr Ile Phe Ile Ile Ala  
 210 215 220  
 Thr Ile Leu Asn Ile His Ser Arg Glu Gly Lys Phe Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Ser Ser His Ile Ser Ala Val Ala Ile Phe Tyr Gly Ser Gly  
 245 250 255  
 Ala Phe Met Tyr Leu Gln Pro Ser Ser Val Ser Ser Met Asp Gln Gly  
 260 265 270  
 Lys Val Ser Ser Val Phe Tyr Thr Thr Val Val Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Ser Val Ala Leu Lys Lys  
 290 295 300  
 Ile Leu Glu Arg Lys Lys Val Met  
 305 310

<210> 2467  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2467  
 Met Glu Ile Lys Asn Cys Ser Val Val Thr Glu Phe Ile Leu Leu Gly

1				5					10				15				
Ile	Pro	His	Thr	Glu	Gly	Phe	Glu	Thr	Leu	Leu	Phe	Val	Leu	Phe	Leu		
			20					25					30				
Pro	Phe	Tyr	Ala	Cys	Thr	Leu	Val	Gly	Asn	Val	Ser	Ile	Leu	Val	Ala		
		35					40					45					
Val	Ile	Ser	Ser	Thr	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly		
	50					55					60						
Asn	Leu	Ser	Val	Phe	Asp	Met	Gly	Phe	Ser	Ser	Val	Thr	Cys	Pro	Lys		
65					70				75						80		
Met	Leu	Phe	Tyr	Leu	Met	Gly	Leu	Ser	Arg	Leu	Ile	Ser	Tyr	Gln	Asp		
			85						90					95			
Cys	Val	Ser	Gln	Leu	Phe	Phe	Phe	His	Phe	Leu	Gly	Ser	Ile	Glu	Cys		
			100					105					110				
Phe	Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Ala	Ala	Ile	Cys	His		
		115					120					125					
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Ser	Lys	Ile	Cys	Val	Ala	Leu		
	130					135					140						
Ala	Val	Gly	Thr	Trp	Leu	Leu	Gly	Cys	Phe	His	Ser	Ser	Val	Leu	Thr		
145					150				155						160		
Ser	Leu	Thr	Phe	Thr	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	His		
			165					170						175			
Phe	Phe	Cys	Asp	Ile	Pro	Ala	Ile	Leu	Pro	Leu	Ala	Ser	Ala	Asp	Thr		
		180						185					190				
Ser	Leu	Ala	Gln	Arg	Val	Ser	Phe	Thr	Asn	Val	Gly	Leu	Val	Ser	Leu		
		195					200					205					
Val	Cys	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Thr	Arg	Ile	Thr	Ile	Ser		
	210					215					220						
Ile	Leu	Ser	Ile	Gln	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr		
225					230				235						240		
Cys	Ser	Ala	His	Leu	Ile	Ala	Ile	Leu	Cys	Ala	Tyr	Gly	Pro	Ile	Ile		
			245						250					255			
Thr	Ile	Tyr	Leu	Gln	Pro	Thr	Pro	Asn	Pro	Met	Leu	Gly	Thr	Val	Val		
		260						265					270				
Gln	Ile	Leu	Met	Asn	Leu	Val	Gly	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr		
		275					280					285					
Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ile	Ala	Leu	Lys	Lys	Ile	Leu	His		
	290				295						300						
Gly	Lys	Gly	Ser	Val	Ser	Glu	Gly										
305					310												

<210> 2468

<211> 314

<212> PRT

<213> Mus musculus

<400> 2468

Met	Arg	Thr	Leu	Tyr	Ser	Asn	Thr	Ser	Ser	Thr	Leu	Ser	Phe	Met	Leu		
1				5				10					15				
Thr	Gly	Phe	Pro	Glu	Met	Gln	Ser	Leu	Glu	His	Trp	Leu	Ala	Ala	Leu		
		20					25					30					
Leu	Leu	Leu	Leu	Tyr	Val	Ile	Ser	Ile	Val	Gly	Asn	Ala	Leu	Ile	Leu		
		35					40				45						
Phe	Ile	Ile	Lys	Glu	Glu	Gln	Ser	Leu	His	His	Pro	Met	Tyr	Tyr	Phe		
	50					55					60						
Leu	Ser	Leu	Leu	Ser	Val	Asn	Asp	Leu	Gly	Val	Ser	Phe	Ser	Thr	Leu		
65					70				75						80		
Pro	Thr	Val	Leu	Ala	Ser	Met	Cys	Phe	His	Ile	Pro	Glu	Thr	Ala	Phe		
			85						90					95			



Asp	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Phe	Phe	Ser	Trp	Thr
			100					105					110		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	His	Tyr	Ser	Ser	Val	Leu	Thr	Asp	Ala	Arg	Val	Ala
	130					135					140				
His	Met	Gly	Met	Ser	Ile	Ile	Ile	Arg	Ser	Phe	Cys	Met	Val	Phe	Pro
145					150					155					160
Leu	Pro	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Ala	Asn	Val	Leu
				165					170					175	
Thr	His	Ser	Tyr	Cys	Leu	His	Pro	Asp	Leu	Ile	Arg	Leu	Pro	Cys	Gly
			180					185					190		
Asp	Thr	Thr	Ile	Asn	Ser	Met	Tyr	Gly	Leu	Phe	Ile	Val	Ile	Ser	Ala
		195					200					205			
Phe	Gly	Val	Asp	Ser	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Leu
	210					215					220				
Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg	Glu	Glu	Arg	Leu	Lys	Thr	Leu
225					230					235					240
Asn	Thr	Cys	Val	Ser	His	Ile	Ser	Ala	Val	Leu	Ile	Phe	Tyr	Val	Pro
				245					250					255	
Met	Ile	Ser	Val	Ser	Met	Val	His	Arg	Phe	Val	Lys	His	Ala	Pro	Glu
			260					265					270		
Tyr	Val	His	Lys	Phe	Thr	Ser	Leu	Val	Tyr	Leu	Phe	Val	Pro	Pro	Met
		275					280					285			
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Ile	Lys	Thr	Lys	Glu	Ile	Arg	Arg	Arg
	290					295					300				
Leu	His	Lys	Met	Leu	Leu	Gly	Thr	Lys	Phe						
305					310										

<210> 2469

<211> 322

<212> PRT

<213> Mus musculus

<400> 2469

Leu	Ile	Ile	Ser	Leu	Leu	Asn	Ala	Ser	Ser	Leu	Thr	Pro	Ala	Ser	Phe
1				5					10					15	
Ile	Leu	Asn	Gly	Ile	Pro	Gly	Leu	Glu	Glu	Val	His	Leu	Trp	Ile	Ser
			20					25				30			
Phe	Pro	Leu	Phe	Thr	Met	Tyr	Ser	Ile	Ala	Leu	Thr	Gly	Lys	Phe	Gly
		35					40					45			
Leu	Ile	Tyr	Leu	Ile	Tyr	Ser	Glu	Glu	Val	Leu	His	Arg	Pro	Met	Tyr
	50					55				60					
Ile	Phe	Leu	Ala	Leu	Leu	Ser	Phe	Thr	Asp	Val	Leu	Met	Cys	Thr	Ser
65				70					75					80	
Thr	Leu	Pro	Asn	Thr	Leu	Cys	Ile	Leu	Trp	Phe	Asn	Val	Lys	Lys	Ile
			85						90					95	
Asp	Phe	Lys	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Val	His	Thr	Phe	Thr
			100					105					110		
Gly	Met	Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Asn	Val	Val
	130					135					140				
Ile	Ala	Lys	Ala	Gly	Met	Leu	Thr	Phe	Leu	Arg	Gly	Val	Ile	Leu	Val
145					150					155					160
Ile	Pro	Phe	Ile	Phe	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Lys	Gly	Asn
				165					170					175	
Val	Ile	Pro	His	Thr	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Ile	Ser

Cys	Gly	Asn	Val	Gln	Ile	Asn	Ala	Ile	Tyr	Gly	Leu	Met	Val	Ala	Leu
		180						185					190		
Leu	Ile	Gly	Gly	Phe	Asp	Ile	Leu	Cys	Ile	Thr	Val	Ser	Tyr	Thr	Met
	195						200				205				
Ile	Leu	Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala	Arg	Gln	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Ile	Cys	Ala	Ile	Val	Ile	Thr	Tyr
				245					250					255	
Val	Pro	Ala	Phe	Phe	Thr	Phe	Phe	Thr	His	Arg	Phe	Gly	Arg	His	Thr
			260					265					270		
Ile	Pro	Pro	His	Ile	His	Ile	Ile	Met	Ala	Asn	Leu	Tyr	Leu	Leu	Met
	275						280					285			
Pro	Pro	Thr	Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile
	290					295					300				
Glu	Ser	Val	Ile	Arg	Phe	Leu	Phe	Lys	Gly	Arg	Glu	Asn	Ser	Ser	His
305					310					315					320
Lys	Ile														

<210> 2470

<211> 317

<212> PRT

<213> Mus musculus

<400> 2470

Met	Glu	Gly	Lys	Asn	Gln	Thr	Ala	Pro	Ser	Glu	Phe	Ile	Ile	Leu	Gly
1			5					10					15		
Phe	Asp	His	Leu	Asn	Glu	Leu	Gln	Tyr	Leu	Leu	Phe	Thr	Ile	Phe	Phe
	20						25					30			
Leu	Thr	Tyr	Ile	Cys	Thr	Leu	Gly	Gly	Asn	Val	Phe	Ile	Ile	Val	Val
	35					40					45				
Thr	Ile	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Gly
	50					55				60					
Asn	Leu	Ala	Leu	Ile	Asp	Ile	Cys	Tyr	Thr	Thr	Thr	Asn	Val	Pro	Gln
65				70					75					80	
Met	Met	Val	His	Leu	Ser	Glu	Lys	Lys	Ile	Ile	Ser	Tyr	Gly	Gly	
			85					90					95		
Cys	Val	Thr	Gln	Leu	Phe	Ala	Phe	Ile	Phe	Phe	Val	Gly	Ser	Glu	Cys
			100				105					110			
Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys
	115					120					125				
Pro	Leu	Arg	Tyr	Ser	Phe	Ile	Met	Asn	Lys	Ala	Leu	Cys	Ser	Trp	Leu
	130					135				140					
Ala	Ala	Ser	Cys	Trp	Thr	Gly	Gly	Phe	Leu	Asn	Ser	Val	Leu	His	Thr
145					150				155					160	
Val	Leu	Thr	Phe	His	Leu	Pro	Phe	Cys	Gly	Asn	Asn	Gln	Ile	Asn	Tyr
			165					170					175		
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ile	Leu	Ser	Cys	Gly	Asp	Thr
		180					185					190			
Ser	Leu	Asn	Glu	Leu	Ala	Leu	Leu	Ser	Ile	Gly	Ile	Leu	Ile	Gly	Trp
	195					200					205				
Thr	Pro	Phe	Leu	Cys	Ile	Ile	Leu	Ser	Tyr	Leu	Tyr	Ile	Ile	Ser	Thr
	210				215						220				
Ile	Leu	Arg	Ile	Arg	Ser	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	
225				230					235					240	
Cys	Ala	Ser	His	Leu	Leu	Ile	Val	Ile	Leu	Tyr	Tyr	Gly	Ser	Ala	Ile
				245					250					255	

Phe	Thr	Tyr	Val	Arg	Pro	Ile	Ser	Ser	Tyr	Ser	Leu	Glu	Lys	Asp	Arg
			260					265					270		
Leu	Ile	Ser	Val	Leu	Tyr	Ser	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Glu	Ala	Met	Lys	Ala	Ile
	290					295					300				
Gly	Arg	Lys	Trp	Lys	Pro	Pro	Val	Phe	Ser	Ser	Asp	Ile			
305					310					315					

<210> 2471

<211> 330

<212> PRT

<213> Mus musculus

<400> 2471

Met	Thr	Tyr	Cys	Ser	Val	Phe	Gln	Glu	Met	Ser	Val	Asn	Cys	Ser	Leu
1				5					10					15	
Trp	Gln	Glu	Asn	Ser	Leu	Ser	Val	Lys	Arg	Phe	Ala	Phe	Ala	Lys	Phe
			20					25					30		
Ser	Glu	Val	Pro	Gly	Glu	Cys	Phe	Leu	Leu	Phe	Thr	Leu	Ile	Leu	Leu
		35					40					45			
Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn	Ala	Leu	Ile	Thr	Leu	Ala	Ile
	50					55					60				
Cys	Thr	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
65					70					75					80
Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Cys	Thr	Val	Ile	Pro	Lys	Met
				85					90					95	
Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg	Gly	Ile	Ser	Arg	Glu	Gly	Cys
			100					105					110		
Ala	Thr	Gln	Met	Phe	Phe	Phe	Thr	Leu	Phe	Gly	Ile	Thr	Glu	Cys	Cys
		115					120						125		
Leu	Leu	Ala	Ala	Met	Ala	Phe	Asp	Arg	Cys	Met	Ala	Ile	Cys	Ser	Pro
		130				135					140				
Leu	His	Tyr	Thr	Thr	Arg	Met	Asn	Arg	Gly	Val	Cys	Ala	His	Leu	Ala
145					150					155					160
Ile	Val	Ser	Trp	Gly	Thr	Gly	Cys	Ile	Val	Gly	Leu	Gly	Gln	Thr	Asn
				165					170					175	
Phe	Ile	Phe	Ser	Leu	Asn	Phe	Cys	Gly	Pro	Cys	Glu	Ile	Asp	His	Phe
			180					185					190		
Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala	Leu	Ala	Cys	Gly	Asp	Thr	Ser
		195					200					205			
Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val	Val	Ala	Ile	Leu	Cys	Ile	Ser	Ser
	210					215					220				
Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser	Tyr	Val	Arg	Ile	Leu	Val	Ala	Val
225					230					235					240
Leu	Val	Met	Pro	Ser	Pro	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys
				245					250					255	
Ser	Ser	His	Leu	Leu	Val	Val	Thr	Leu	Phe	Phe	Gly	Ser	Gly	Ser	Ile
			260					265					270		
Asn	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	His	Ser	Pro	Gly	Met	Asp	Lys	Leu
		275					280					285			
Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val	Thr	Ser	Met	Leu	Asn	Pro	Ile	Ile
	290					295					300				
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Leu	Arg	Arg	Thr	Leu
305					310					315					320
Gly	Leu	Lys	Lys	Val	Leu	Thr	Met	Asn	Arg						
				325					330						

<210> 2472  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2472  
 Met Glu Asp Met Thr Ser Gly Asn Asn Cys Thr Val Thr Glu Phe Phe  
 1 5 10 15  
 Leu Ala Gly Leu Ser Glu Glu Pro Glu Leu Gln Leu Pro Leu Phe Leu  
 20 25 30  
 Leu Phe Thr Gly Ile Tyr Leu Ile Thr Val Ala Gly Asn Leu Gly Met  
 35 40 45  
 Ile Thr Leu Ile Gly Ile Ser Ser His Leu His Thr Pro Met Tyr Tyr  
 50 55 60  
 Phe Leu Ser Ser Leu Ser Leu Ile Asp Phe Cys Gln Ser Thr Val Val  
 65 70 75 80  
 Ile Pro Lys Met Leu Met Ser Phe Leu Val Glu Lys Asn Leu Ile Ser  
 85 90 95  
 Tyr Pro Gly Cys Met Ala Gln Leu Tyr Phe Phe Ile Thr Phe Gly Ile  
 100 105 110  
 Ala Glu Cys Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Asn Pro Leu Leu Tyr Asn Ala Thr Met Ser Ser Gln Ile Tyr  
 130 135 140  
 Thr Ser Leu Ile Leu Gly Val Tyr Ile Phe Ala Val Ile Cys Ala Ser  
 145 150 155 160  
 Val Asn Thr Gly Phe Met Ser Arg Ile Lys Phe Cys Lys Ser Asp Val  
 165 170 175  
 Ile Ser His Tyr Phe Cys Asp Phe Leu Pro Leu Leu Lys Leu Ala Cys  
 180 185 190  
 Ser Asp Ile Tyr Ile Asn Glu Met Leu Ile Leu Ser Phe Gly Thr Val  
 195 200 205  
 Asn Ile Cys Val Pro Leu Leu Thr Val Ile Thr Ser Tyr Ile Phe Ile  
 210 215 220  
 Ile Ala Ser Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Ser Ser His Ile Ser Ala Val Ala Val Phe Tyr Gly  
 245 250 255  
 Ser Ala Ala Phe Thr Tyr Leu Gln Pro Ser Ser Val Ser Leu Ile Asp  
 260 265 270  
 Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Thr Val Val Pro Met Leu  
 275 280 285  
 Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Thr Val Ala Leu  
 290 295 300  
 Lys Thr Ile Leu Glu Arg Lys Lys Phe Met  
 305 310

<210> 2473  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2473  
 Met Ser Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Leu Trp Leu  
 1 5 10 15  
 Thr Gly Ile Pro Gly Leu Glu Thr Leu His Ile Trp Leu Ser Ile Pro  
 20 25 30

Phe	Gly	Ser	Met	Tyr	Leu	Val	Ala	Val	Val	Gly	Asn	Ile	Thr	Ile	Leu
	35						40				45				
Ala	Val	Val	Arg	Val	Glu	Arg	Ser	Leu	His	Gln	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Cys	Met	Leu	Ala	Val	Ile	Asp	Leu	Val	Leu	Ser	Thr	Ser	Thr	Met
65					70					75					80
Pro	Lys	Leu	Leu	Ala	Ile	Phe	Trp	Phe	Gly	Ala	Gly	His	Ile	Gly	Leu
				85					90					95	
Asp	Ala	Cys	Leu	Cys	Gln	Met	Phe	Leu	Ile	His	Cys	Phe	Ala	Thr	Val
			100					105					110		
Glu	Ser	Gly	Ile	Phe	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
	115						120					125			
Cys	Asn	Pro	Leu	Arg	His	Ser	Met	Val	Leu	Thr	His	Thr	Leu	Val	Gly
	130					135					140				
Arg	Leu	Gly	Leu	Ala	Ala	Val	Leu	Arg	Gly	Val	Leu	Tyr	Ile	Gly	Pro
145					150					155					160
Leu	Pro	Leu	Met	Ile	Arg	Leu	Arg	Leu	Pro	Leu	Tyr	Lys	Thr	Arg	Val
				165					170					175	
Ile	Ser	His	Ser	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Ala	Leu	Thr	Cys
			180					185					190		
Gly	Asp	Ser	Arg	Val	Asn	Asn	Val	Tyr	Gly	Leu	Ser	Ile	Gly	Phe	Leu
	195					200						205			
Val	Leu	Ile	Leu	Asp	Ser	Ala	Ala	Ile	Ala	Ala	Ser	Tyr	Val	Met	Ile
	210					215					220				
Phe	Arg	Ala	Val	Met	Gly	Leu	Ala	Thr	Pro	Glu	Ala	Arg	Leu	Lys	Ala
225					230					235					240
Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Cys	Ala	Ile	Leu	Ile	Phe	Tyr	Val
				245					250					255	
Pro	Ile	Ala	Val	Ser	Ser	Leu	Ile	His	Arg	Phe	Gly	His	Gln	Val	Pro
			260					265					270		
Pro	Pro	Ile	His	Thr	Leu	Leu	Ala	Asn	Phe	Tyr	Leu	Leu	Ile	Pro	Pro
		275					280					285			
Ile	Leu	Asn	Pro	Ile	Val	Tyr	Ala	Val	Arg	Thr	Lys	Gln	Ile	Arg	Asp
	290					295					300				
Arg	Leu	Leu	Gln	Ile	Leu	Lys	Thr	Gly	Thr	Lys	Ile	Arg			
305					310					315					

<210> 2474

<211> 309

<212> PRT

<213> Mus musculus

<400> 2474

Ile	Glu	Leu	Asn	Thr	Thr	Pro	Thr	Gln	Leu	Thr	Phe	Phe	Leu	Leu	Thr
1				5					10					15	
Gly	Val	Pro	Gly	Leu	Glu	Asp	Ile	Gln	Ile	Trp	Met	Ser	Ile	Pro	Phe
			20					25					30		
Ser	Phe	Met	Tyr	Val	Leu	Ala	Val	Leu	Gly	Asn	Val	Leu	Val	Met	Ala
		35					40				45				
Val	Val	Val	Tyr	Asp	Arg	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu	Phe	Leu
	50					55				60					
Ala	Met	Leu	Ala	Phe	Asn	Asp	Val	Leu	Leu	Cys	Thr	Val	Thr	Val	Pro
65					70					75					80
Gln	Met	Leu	Leu	Ile	Phe	Trp	Gln	Gly	Pro	Leu	Glu	Ala	Thr	Phe	Pro
				85				90						95	
Ala	Cys	Leu	Thr	Gln	Met	Phe	Phe	Val	His	Ala	Leu	Phe	Leu	Ser	Glu
			100					105					110		
Ser	Ala	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys



Glu	Leu	Met	Ser	Phe	Ile	Leu	Ala	Leu	Ile	Thr	Leu	Met	Thr	Thr	Leu
210						215					220				
Met	Leu	Ile	Ile	Leu	Ser	Tyr	Thr	Cys	Ile	Leu	Arg	Thr	Ile	Leu	Lys
225					230					235					240
Phe	Pro	Ser	Ala	Lys	Gln	Arg	Glu	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
				245					250					255	
His	Met	Ile	Val	Val	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr
			260					265					270		
Val	Lys	Thr	Ser	Ala	Lys	Ala	Gly	Val	Ala	Leu	Thr	Lys	Gly	Val	Ala
		275					280					285			
Met	Leu	Asn	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr
	290					295					300				
Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Val	Arg	Lys
305					310					315					320
Lys	Leu	Ala	Ser	Lys	Leu	Leu	Ile								
				325											

<210> 2476

<211> 311

<212> PRT

<213> Mus musculus

<400> 2476

Met	Gln	Asn	Gln	Ser	Phe	Val	Thr	Glu	Phe	Val	Phe	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Asn	Leu	Gln	Lys	Leu	Ile	Phe	Ile	Ile	Cys	Leu	Val	Val
			20					25					30		
Tyr	Ile	Ala	Thr	Met	Gly	Ser	Asn	Met	Met	Ile	Val	Val	Thr	Val	Val
		35					40					45			
Cys	Ser	Pro	Thr	Leu	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Phe
	50					55					60				
Leu	Ser	Leu	Leu	Asp	Ala	Ser	Phe	Ser	Ser	Ala	Met	Thr	Pro	Lys	Met
65				70						75					80
Ile	Leu	Asp	Ser	Leu	Tyr	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Gly	Cys
				85					90					95	
Met	Ile	Gln	Leu	Phe	Val	Glu	His	Phe	Leu	Gly	Gly	Ala	Glu	Met	Ile
			100					105					110		
Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Arg	Lys	Val	Cys	Gly	Thr	Leu	Val
	130					135						140			
Gly	Val	Ala	Trp	Ala	Gly	Gly	Leu	Leu	His	Ser	Thr	Val	Gln	Ile	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asn	His	Phe
				165					170					175	
Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Thr	Asp	Thr	His
			180					185					190		
Ile	Phe	Gly	Leu	Phe	Val	Val	Ala	Asn	Ser	Gly	Leu	Ile	Cys	Ile	Ile
		195					200					205			
Val	Phe	Val	Leu	Leu	Leu	Val	Ser	Tyr	Gly	Phe	Ile	Leu	Leu	Ser	Leu
	210					215						220			
Arg	Ser	Gln	Ser	Ser	Glu	Gly	Arg	Trp	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Val	Ala	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Ile
				245					250					255	
Tyr	Ala	Arg	Pro	His	Ser	Ala	Phe	Ser	Phe	Asp	Lys	Met	Val	Ala	Leu
			260					265					270		
Phe	Tyr	Thr	Met	Leu	Ser	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Phe





290

295

300

Lys  
305

&lt;210&gt; 2478

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2478

Met	Gly	Arg	Glu	Asn	Gln	Thr	Ser	Thr	Phe	Glu	Phe	Leu	Leu	Trp	Gly
1				5					10					15	
Leu	Ser	Glu	Gln	Leu	Gln	Gln	Gln	His	Ile	Leu	Phe	Leu	Ile	Phe	Leu
			20					25					30		
Trp	Met	Tyr	Leu	Val	Thr	Val	Val	Gly	Asn	Leu	Leu	Ile	Val	Leu	Ala
		35					40					45			
Ile	Ser	Thr	Asp	Val	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Cys	Asp	Asp	Ile	Leu	Phe	Thr	Ser	Thr	Thr	Ile	Pro	Lys
65				70						75					80
Ala	Leu	Val	Asn	Ile	His	Thr	Gln	Ser	Arg	Thr	Ile	Ser	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Val	Gln	Leu	Tyr	Phe	Phe	Leu	Thr	Phe	Gly	Asp	Met	Asp	Ile
			100					105					110		
Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Arg	Met	Ile	Met	Ser	Phe	Gln	Arg	Cys	Ser	Leu	Leu
	130					135					140				
Val	Thr	Ala	Cys	Trp	Ile	Leu	Thr	Thr	Phe	Val	Ala	Met	Thr	His	Thr
145					150					155					160
Leu	Leu	Ile	Phe	Arg	Leu	Ser	Phe	Cys	Ser	Lys	Lys	Val	Ile	Pro	Asp
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Gly	Pro	Leu	Met	Lys	Ile	Ala	Cys	Ser	Glu	Thr
			180					185					190		
Arg	Ile	Asn	Glu	Leu	Val	Leu	Leu	Phe	Leu	Gly	Gly	Ala	Val	Ile	Leu
		195					200					205			
Ile	Pro	Phe	Leu	Leu	Ile	Leu	Val	Ser	Tyr	Ile	Arg	Ile	Val	Ser	Ala
	210					215					220				
Ile	Leu	Arg	Leu	Pro	Ser	Ala	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ala	Leu	Cys	Phe	Gly	Thr	Val	Ile
			245						250					255	
Lys	Ala	Tyr	Leu	Cys	Pro	Ser	Ser	Ser	Ser	Ser	Asn	Ser	Val	Val	Glu
			260					265					270		
Asp	Thr	Ala	Ala	Val	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn
		275					280					285			
Pro	Phe	Ile	Tyr	Ser	Leu	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Val	Arg
	290					295					300				
Ile	Leu	Lys	Gly	Lys	Val	Ser	Phe								
305					310										

&lt;210&gt; 2479

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2479

Met Glu Lys Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly Leu  
 1 5 10 15  
 Ser His Gln Pro Leu Trp Asn Ile Pro Leu Phe Leu Val Phe Leu Val  
 20 25 30  
 Ile Tyr Leu Ile Thr Ile Val Gly Asn Val Ser Leu Ile Thr Leu Ile  
 35 40 45  
 Trp Thr Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly Ser  
 50 55 60  
 Leu Ala Phe Val Asp Thr Ser Ile Ser Ser Ile Val Val Pro Lys Met  
 65 70 75 80  
 Leu Leu Asn Phe Phe Gly Lys Ser Lys Val Ile Thr Leu Ser Glu Cys  
 85 90 95  
 Met Ala Gln Phe Phe Leu Phe Asn Ile Ser Ala Thr Thr Glu Cys Phe  
 100 105 110  
 Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro  
 115 120 125  
 Leu Leu Tyr Pro Val Val Met Thr Asn Gly Leu Cys Val Trp Leu Ile  
 130 135 140  
 Ala Leu Ser Phe Val Ala Gly Ile Ile His Ala Leu Ile His Glu Gly  
 145 150 155 160  
 Phe Leu Leu Arg Leu Thr Phe Cys Asn Ser Asn Met Ile His Asn Phe  
 165 170 175  
 Tyr Cys Asp Ile Ile Ser Leu Leu Lys Ile Ser Cys Thr Asp Thr Ser  
 180 185 190  
 Leu Asn Tyr Leu Ile Val Phe Ile Phe Ser Gly Ser Ile Gln Val Phe  
 195 200 205  
 Thr Ile Ser Thr Ile Leu Val Ser Tyr Thr Ile Ile Leu Phe Thr Ile  
 210 215 220  
 Leu Lys Lys Lys Ser Ala Lys Gly Ile Lys Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Leu Phe  
 245 250 255  
 Met Tyr Val His Pro Ala Ser Ser Glu Val Asp Asp Gln Asp Met Ile  
 260 265 270  
 Asp Ser Leu Phe Tyr Thr Val Ile Ile Pro Val Leu Asn Pro Ile Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp Ser Leu Ala Lys Phe Leu  
 290 295 300  
 Lys Arg Asn Val  
 305

<210> 2480

<211> 309

<212> PRT

<213> Mus musculus

<400> 2480

Met Glu Asp Gly Asn Thr Thr Leu Leu Thr Glu Phe Val Leu Thr Gly  
 1 5 10 15  
 Leu Thr Asp His Gln Gly Leu Gln Val Pro Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Met Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Gly Leu Ile Ala Leu  
 35 40 45  
 Ile Trp Ser Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly  
 50 55 60  
 Ser Leu Ala Phe Val Asp Ala Trp Ile Ser Ser Ala Val Thr Pro Asn  
 65 70 75 80  
 Met Leu Phe Asp Leu Leu Ser Lys Asn Lys Met Ile Ser Leu Ser Glu

				85				90					95				
Cys	Met	Ile	Gln	Phe	Phe	Ala	Phe	Ala	Phe	Gly	Gly	Thr	Thr	Glu	Cys		
			100					105					110				
Phe	Leu	Leu	Gly	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys		
		115					120					125					
Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr	Asn	Arg	Leu	Cys	Ile	Arg	Leu		
	130					135					140						
Leu	Val	Ser	Val	Phe	Ile	Gly	Gly	Phe	Leu	His	Ser	Leu	Phe	His	Val		
145				150						155					160		
Leu	Phe	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Asn	Ser	Asn	Ile	Ile	His	His		
				165					170					175			
Phe	Tyr	Cys	Asp	Ile	Ile	Pro	Leu	Tyr	Asn	Ile	Ser	Cys	Thr	Asp	Pro		
		180						185					190				
Thr	Leu	Asn	Leu	Leu	Leu	Val	Phe	Ile	Leu	Ser	Gly	Ser	Ile	Gln	Val		
		195				200						205					
Phe	Thr	Ile	Met	Thr	Val	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Thr		
	210					215					220						
Ile	Leu	Lys	Met	Lys	Ser	Leu	Gln	Gly	Ile	Arg	Lys	Ala	Phe	Ser	Thr		
225				230						235					240		
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu		
				245					250					255			
Phe	Met	Tyr	Val	Leu	Pro	Ala	Ser	Gln	Gln	Thr	Asp	Gly	Gln	Gly	Met		
			260					265					270				
Met	Asp	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Thr	Asp	Ser	Leu	Lys	Lys	Arg		
	290				295						300						
Leu	Glu	Arg	His	Val													
305																	

<210> 2481

<211> 325

<212> PRT

<213> Mus musculus

<400> 2481

Met	Thr	Gln	Thr	Pro	Thr	Lys	Ser	Phe	Leu	Gln	Met	Lys	His	Asp	Glu		
1				5					10					15			
Ile	Glu	Ala	Glu	Val	Asn	Ile	Ser	Thr	Val	Ile	Gln	Phe	Val	Leu	Leu		
			20					25					30				
Gly	Phe	Ser	Ala	Leu	Pro	Asn	Leu	Gln	Gly	Ile	Leu	Ser	Ala	Leu	Phe		
		35				40						45					
Ser	Ile	Ile	Tyr	Met	Ile	Ile	Leu	Thr	Gly	Asn	Cys	Leu	Ile	Ile	Leu		
		50				55					60						
Ile	Thr	Arg	Leu	Asp	His	Thr	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu		
65					70					75					80		
Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val	Ser	Val	Thr	Val	Pro		
				85					90					95			
Arg	Ile	Leu	Phe	Asn	Ile	Trp	Thr	Gln	Asp	Arg	Asn	Ile	Ser	Val	Leu		
			100					105					110				
Ala	Cys	Ala	Val	Gln	Met	Cys	Phe	Phe	Leu	Met	Leu	Gly	Thr	Asp	Glu		
		115					120					125					
Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys		
	130					135					140						
Asn	Pro	Leu	His	Tyr	Pro	Leu	Ile	Met	Asn	Ser	Lys	Lys	Cys	Thr	Gln		
145					150					155					160		
Leu	Ala	Ala	Gly	Ser	Trp	Leu	Ser	Gly	Ile	Pro	Ile	Gln	Ile	Gly	Gln		
				165					170					175			

Thr	Cys	Trp	Ile	Phe	Ser	Met	His	Phe	Cys	Asp	Ser	Asn	Glu	Ile	Asp
			180					185					190		
His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Lys	Leu	Ala	Cys	Gly	Asp
		195					200					205			
Thr	Ser	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Val	Val	Met	Val	Val	Ala
	210					215					220				
Ala	Phe	Pro	Phe	Ile	Leu	Val	Leu	Thr	Ser	Tyr	Ser	Lys	Ile	Ile	Ala
225					230					235					240
Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg	Ala	Lys	Ala	Phe	Ser
			245						250					255	
Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Val	Leu	Phe	Tyr	Gly	Ser	Gly
			260					265					270		
Thr	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Thr	His	Ser	Pro	Gly	Ile	Asp
		275					280					285			
Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Phe	Asn	Pro
	290					295					300				
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Val	Val	Ala	Leu	Arg	Lys
305					310					315					320
Leu	Ile	Leu	Gln	Lys											
				325											

<210> 2482

<211> 285

<212> PRT

<213> Mus musculus

<400> 2482

Met	Glu	Pro	Gly	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Ile	Ile	Leu	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Thr	Leu	Cys	Cys	Ile	Phe	Phe	Val	Leu	Phe	Leu
			20					25					30		
Gly	Val	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Val	Ser	Ile	Ile	Met	Leu
		35				40						45			
Ile	Arg	Arg	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Val
65					70					75					80
Met	Ile	Val	Ser	Phe	Leu	Arg	Glu	Arg	Thr	Ala	Ile	Pro	Val	Ala	Gly
				85					90					95	
Cys	Ile	Val	Gln	Leu	Gly	Ser	Asp	Val	Val	Phe	Gly	Thr	Ala	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115					120					125			
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Met	Ser	Pro	Lys	Val	Cys	Leu	Ile	Leu
	130					135					140				
Leu	Val	Ile	Ser	Tyr	Val	Gly	Gly	Cys	Val	Asn	Ser	Ser	Ser	Phe	Thr
145					150					155					160
Ser	Cys	Leu	Leu	Ser	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Val	Glu	Leu	Ser	Cys	Thr	His	Val
			180					185					190		
Tyr	Val	Ala	Glu	Met	Ser	Pro	Ala	Ile	Ser	Ala	Gly	Ser	Ile	Ile	Val
		195					200					205			
Ile	Thr	Leu	Phe	Val	Ile	Ile	Ile	Ser	Tyr	Val	Tyr	Ile	Leu	His	Ser
	210					215					220				
Ile	Leu	Arg	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Thr

				245					250					255			
Phe	Val	Tyr	Val	Ile	Pro	Glu	Ser	Ser	His	Ser	Pro	Asn	Lys	Ile	Lys		
			260					265					270				
Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu					
		275					280					285					

<210> 2483  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2483

Met	Lys	Asn	Gln	Ser	Val	Lys	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr		
1				5					10					15			
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Val	Phe	Leu	Phe	Leu	Phe	Phe	Asn		
			20					25					30				
Tyr	Ile	Leu	Ser	Val	Met	Gly	Asn	Leu	Val	Ile	Ile	Leu	Leu	Thr	Leu		
		35					40					45					
Leu	Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe		
	50					55					60						
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu		
65					70					75					80		
Met	Ser	Ile	Leu	Ser	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala		
			85						90					95			
Ala	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Leu	Gly	Ala	Thr	Glu	Phe	Tyr	Leu		
			100					105					110				
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu		
		115				120						125					
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu		
	130					135					140						
Ser	Cys	Trp	Val	Thr	Gly	Phe	Leu	Val	Ile	Phe	Pro	Pro	Leu	Leu	Leu		
145					150					155					160		
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Ile	Asp	His	Phe	Leu		
			165						170					175			
Cys	Asp	Thr	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	His	Phe		
		180						185					190				
Ile	Glu	Leu	Met	Ala	Phe	Ala	Leu	Ala	Val	Met	Thr	Leu	Val	Ile	Thr		
		195					200					205					
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Leu	Ile	Ile	Lys	Thr	Ile	Leu		
	210					215					220						
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser		
225					230					235					240		
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met		
			245						250					255			
Tyr	Met	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Thr	Leu	Asn	Lys	Gly	Val		
		260						265					270				
Ala	Val	Leu	Asn	Thr	Val	Ile	Lys	Arg	Val	Leu	Thr	Pro	Gly	Gln	Glu		
		275					280					285					
Glu	His	Asn	Lys	Pro	Glu	Ser	Ser	Ala	Ala	Lys	Leu	Tyr	Cys	Leu	His		
	290					295					300						
Leu	Gln	Glu	Gln	Glu	Cys	Lys	Lys	Gln									
305					310												

<210> 2484  
 <211> 324  
 <212> PRT  
 <213> Mus musculus

<400> 2484

Met	Asn	Glu	Thr	Asn	Tyr	Ser	Arg	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Ser	Lys	Glu	Leu	Gln	Pro	Phe	Leu	Phe	Leu	Ile	Phe	Ser
			20					25					30		
Leu	Leu	Tyr	Leu	Ala	Ile	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Leu	Thr
		35					40					45			
Val	Thr	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Met	Cys	Val	Ala	Ser	Phe	Ala	Thr	Pro	Lys
65					70					75					80
Met	Leu	Ala	Asp	Phe	Leu	Val	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Ala
			85						90					95	
Cys	Leu	Ala	Gln	Ile	Phe	Phe	Val	His	Leu	Phe	Thr	Gly	Gly	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Ile	Ile	Leu
	130					135					140				
Val	Cys	Ile	Ser	Trp	Phe	Val	Gly	Phe	Ile	His	Thr	Thr	Ser	Gln	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Leu	Leu	Val	Thr	Lys	Leu	Ala	Cys	Ile	Asp	Thr
			180					185					190		
Tyr	Val	Val	Ser	Leu	Leu	Ile	Val	Ala	Asp	Ser	Gly	Phe	Leu	Ser	Met
		195					200					205			
Ser	Ser	Phe	Leu	Leu	Leu	Val	Val	Ser	Tyr	Thr	Val	Ile	Leu	Ile	Thr
	210					215					220				
Val	Arg	Asn	Arg	Ser	Ser	Ala	Ser	Met	Ala	Lys	Ala	Arg	Ser	Thr	Leu
225					230					235					240
Thr	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Ile	Tyr	Val	Trp	Pro	Phe	Ser	Ser	Tyr	Ser	Val	Asp	Lys	Val	Leu	Ala
			260					265					270		
Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ile	Leu	Asn	Pro	Val	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Met	Ser	Lys	Leu	Arg	Gly	Arg
	290					295					300				
Tyr	Leu	Lys	Pro	Gly	Gln	Val	Ser	Ala	Leu	Ile	Arg	Asn	Val	Leu	Phe
305					310					315					320
Leu	Glu	Thr	Lys												

<210> 2485

<211> 309

<212> PRT

<213> Mus musculus

<400> 2485

Met	Lys	Asn	Lys	Thr	Ser	Leu	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Val	Pro	Glu	Leu	Gln	Val	Ala	Val	Phe	Thr	Phe	Leu	Leu	Leu	Ala
			20					25					30		
Tyr	Val	Phe	Ser	Met	Ile	Gly	Asn	Leu	Thr	Ile	Leu	Val	Leu	Thr	Leu
		35				40						45			
Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe

50		55		60
Ser Phe Leu Glu Ile	Ser Phe Thr Asn Ile	Phe Ile Pro Arg Val Leu		
65	70	75	80	
Val Ser Ile Thr Thr	Gly Asn Lys Ser Ile	Ser Phe Ala Gly Cys Phe		
	85	90	95	
Ala Gln Tyr Phe Phe	Ala Ile Phe Leu Gly	Ala Thr Glu Phe Tyr Leu		
	100	105	110	
Leu Ala Ala Met Ser	Tyr Asp Arg Tyr Val	Ala Ile Cys Lys Pro Leu		
	115	120	125	
His Tyr Met Ala Ile	Met Ser Asn Arg Val	Cys Thr His Leu Val Leu		
	130	135	140	
Cys Ser Trp Leu Gly	Gly Leu Met Ala Ile	Ile Pro Pro Ile Thr Leu		
145	150	155	160	
Met Ser Gln Gln Asn	Phe Cys Ala Ser Asn	Arg Leu Asn His Tyr Phe		
	165	170	175	
Cys Asp Phe Glu Pro	Leu Leu Glu Leu Ser	Cys Ser Asp Thr Ser Leu		
	180	185	190	
Ile Glu Lys Val Val	Phe Leu Val Ala Ser	Val Thr Leu Val Val Thr		
	195	200	205	
Leu Met Leu Val Thr	Leu Ser Tyr Thr Phe	Ile Ile Lys Thr Ile Leu		
	210	215	220	
Lys Leu Pro Ser Ala	Gln Gln Arg Thr Lys	Ala Phe Ser Thr Cys Ser		
225	230	235	240	
Ser His Met Ile Val	Ile Ser Leu Ser Tyr	Gly Ser Cys Phe Phe Met		
	245	250	255	
Tyr Val Lys Pro Ser	Ala Lys Val Gly Gly	Thr Phe Asp Lys Gly Val		
	260	265	270	
Ala Leu Leu Ile Thr	Ser Val Ala Pro Leu	Leu Leu Asn Pro Phe Ile Tyr		
	275	280	285	
Thr Leu Arg Asn Gln	Gln Val Lys Gln Ala	Phe Lys Asp Thr Val Lys		
	290	295	300	
Lys Leu Val Asn Leu				
305				

<210> 2486

<211> 321

<212> PRT

<213> Mus musculus

<400> 2486

Met Asn Glu Arg Asn	Tyr Ser His Val Thr	Glu Phe Val Leu Leu Gly
1	5	10
Leu Ser Ser Ser Lys	Glu Leu Gln Pro Phe	Leu Phe Leu Ile Phe Ser
	20	25
Leu Leu Tyr Leu Ala	Ile Leu Leu Gly Asn	Phe Leu Ile Ile Leu Thr
	35	40
Val Thr Ser Asp Pro	Arg Leu His Thr Pro	Met Tyr Phe Leu Leu Ala
	50	55
Asn Leu Ser Phe Ile	Asp Met Cys Val Ala	Ser Phe Ala Thr Pro Lys
65	70	75
Met Leu Ala Asp Phe	Leu Val Glu Arg Lys	Thr Ile Ser Phe Lys Ala
	85	90
Cys Leu Ala Gln Ile	Phe Cys Ile His Leu	Phe Gly Gly Gly Glu Met
	100	105
Val Leu Leu Val Ser	Met Ala Tyr Asp Arg	Tyr Val Ala Ile Cys Lys
	115	120
Pro Leu His Tyr Met	Thr Ile Met Ser Arg	Arg Val Cys Ile Thr Leu
	130	135
		140

Val	Ile	Met	Pro	Trp	Phe	Val	Gly	Phe	Ile	His	Thr	Thr	Ser	Gln	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Val	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Thr	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180						185				190		
Tyr	Phe	Val	Ser	Leu	Leu	Ile	Val	Ala	Asp	Ser	Gly	Val	Leu	Thr	Leu
		195					200					205			
Ser	Thr	Phe	Val	Phe	Leu	Val	Ile	Ser	Tyr	Thr	Val	Val	Leu	Ile	Thr
	210					215					220				
Val	Arg	Asn	Arg	Ser	Ser	Ala	Ser	Met	Ala	Lys	Ala	Arg	Ser	Thr	Leu
225					230					235					240
Thr	Ala	His	Ile	Ile	Val	Val	Val	Leu	Phe	Gly	Pro	Cys	Ile	Phe	
				245					250				255		
Val	Tyr	Ala	Cys	Pro	Leu	Asn	Gly	Ser	Val	Asp	Lys	Val	Leu	Ala	
			260					265				270			
Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ile	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Met	Lys	Ala	Ala	Met	Ser	Lys	Leu	Arg	Gly	Gln
	290					295					300				
Tyr	Met	Lys	Pro	Arg	Gln	Val	Phe	Glu	Leu	Val	Arg	Asn	Val	Leu	Phe
305					310					315					320
Leu															

<210> 2487

<211> 321

<212> PRT

<213> Mus musculus

<400> 2487

Met	Asn	Glu	Arg	Asn	Tyr	Ser	Arg	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Ser	Lys	Glu	Leu	Gln	Pro	Phe	Leu	Phe	Leu	Ile	Phe	Ser
			20				25					30			
Leu	Leu	Tyr	Leu	Ala	Ile	Leu	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Leu	Thr
		35				40					45				
Val	Thr	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55				60					
Asn	Leu	Ser	Phe	Ile	Asp	Met	Cys	Val	Ala	Ser	Phe	Ala	Thr	Pro	Lys
65				70					75						80
Met	Leu	Ala	Asp	Phe	Leu	Val	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Ala
				85					90				95		
Cys	Leu	Ala	Gln	Ile	Phe	Cys	Val	His	Gln	Phe	Ala	Gly	Gly	Glu	Met
			100				105					110			
Val	Leu	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Ile	Thr	Leu
	130					135					140				
Val	Ile	Ile	Pro	Trp	Phe	Val	Gly	Phe	Ile	His	Thr	Met	Ser	Gln	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Val	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Thr	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180						185				190		
Tyr	Phe	Val	Ser	Leu	Leu	Ile	Val	Ala	Asp	Ser	Gly	Val	Leu	Thr	Leu
		195					200					205			
Ser	Thr	Phe	Val	Phe	Leu	Val	Ile	Ser	Tyr	Thr	Val	Ile	Leu	Ile	Thr



210		215		220
Val Arg Asn Arg Ser Ser	Ala Ser Met Ala Lys	Ala Arg Ser Thr Leu		
225		230	235	240
Thr Ala His Ile Thr	Val Val Val Leu Phe Phe	Gly Pro Cys Ile Phe		
	245	250	255	
Ile Tyr Ala Trp Pro	Phe Asn Gly Tyr Ser	Val Asp Lys Val Leu Ala		
	260	265	270	
Val Phe Tyr Thr Ile	Phe Thr Pro Ile Leu Asn	Pro Leu Ile Tyr Thr		
	275	280	285	
Leu Arg Asn Lys Glu	Val Lys Ala Ala Met Ser	Lys Leu Arg Gly Arg		
	290	295	300	
Tyr Leu Lys Pro Gly	Gln Val Ser Glu Leu Ile	Arg Asn Val Leu Phe		
305	310	315	320	
Met				

<210> 2488  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2488

Met Asp Arg Gly Asn Thr Thr	Ala Gly Phe Val Leu Leu Gly	Leu Phe
1	5	10
Asn His Thr Arg Ala His	Leu Phe Leu Phe Val Leu Val	Leu Thr Val
	20	25
Ala Phe Asn Ser Val Val	Gly Asn Ala Leu Leu Leu Leu	Ile His
	35	40
Gln Asp Arg Arg Leu His	Thr Pro Met Tyr Phe Leu Leu Ser	Gln Leu
	50	55
Ser Leu Met Asp Met Met	Leu Val Ser Thr Val Val Pro	Gln Met Ala
	65	70
Ala Gly Tyr Leu Met Gly	Lys Lys Phe Ile Ser Ala Ala Gly	Cys Gly
	85	90
Phe Gln Ile Phe Phe Phe	Leu Thr Leu Gly Gly Gly Glu Cys	Phe Leu
	100	105
Leu Ala Ala Met Ser Tyr	Asp Arg Tyr Val Ala Ile Cys His	Pro Leu
	115	120
Arg Tyr Pro Val Leu Met	Ser Trp Gln Leu Cys Leu Arg Leu Thr	Val
	130	135
Ala Ser Trp Leu Leu Gly	Ala Ala Asp Gly Ala Met Gln Ala Ala Ala	
	145	150
Thr Leu Ser Phe Gln Phe	Cys Ser Arg Asn Glu Ile Asp His Phe Phe	
	165	170
Cys Glu Ala Pro Val Leu	Leu Arg Leu Ala Cys Gly Asp Thr Ser Ala	
	180	185
Phe Glu Phe Phe Met Tyr	Ile Cys Cys Val Leu Met Leu Leu Ile Pro	
	195	200
Phe Ser Leu Ile Leu Met	Ser Tyr Gly Leu Ile Leu Ala Ala Val Leu	
	210	215
Arg Met Arg Ser Thr	Glu Ala Arg Lys Lys Ala Phe Ala Thr Cys Ser	
	225	230
Ser His Leu Ala Val	Val Gly Leu Phe Tyr Gly Ala Ala Thr Phe Ser	
	245	250
Tyr Met Arg Pro Thr	Ser Ser Arg Ser Ala Asn His Asp Lys Val Val	
	260	265
Ser Ala Phe Tyr Thr	Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr	
	275	280

Ser	Leu	Arg	Asn	Ser	Glu	Val	Lys	Gly	Ser	Leu	Arg	Lys	Cys	Val	Thr
	290					295					300				
Arg	Cys	Ala	Ala	Leu	Thr	Ser	Lys	Asp	Ala	Leu	Ala				
305					310					315					

<210> 2489  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2489

Met	Gln	Asp	Phe	Leu	Trp	Arg	Asn	Arg	Ser	Ser	Leu	Thr	Glu	Phe	Val
1				5					10					15	
Leu	Leu	Gly	Phe	Ser	Ser	Asn	Thr	Gln	Ile	Asn	Gly	Ile	Leu	Phe	Gly
			20					25					30		
Ile	Phe	Leu	Leu	Leu	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile
		35					40					45			
Ile	Thr	Leu	Ile	His	Met	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	Val	Leu	Ser	Ile	Leu	Asp	Met	Gly	Tyr	Val	Thr	Thr	Thr
65					70					75					80
Val	Pro	Gln	Met	Leu	Val	His	Leu	Val	Cys	Lys	Lys	Lys	Thr	Ile	Ser
				85					90					95	
Tyr	Val	Gly	Cys	Val	Ala	Gln	Met	Tyr	Ile	Phe	Leu	Met	Leu	Gly	Ile
			100					105					110		
Thr	Glu	Ser	Trp	Leu	Phe	Ala	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	Tyr	Lys	Val	Ile	Met	Ser	Pro	Leu	Leu	Arg
	130					135					140				
Gly	Ser	Leu	Val	Ala	Phe	Cys	Gly	Phe	Trp	Gly	Ile	Thr	Cys	Ala	Leu
145					150					155					160
Ile	Tyr	Thr	Val	Ser	Ala	Met	Ile	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu
				165					170					175	
Ile	Asn	His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys
			180					185					190		
Ala	Asp	Thr	Ser	Leu	Asn	Asp	Gln	Val	Asp	Phe	Ile	Leu	Gly	Phe	Ile
		195					200					205			
Leu	Leu	Leu	Val	Pro	Leu	Ser	Leu	Ile	Ile	Val	Val	Tyr	Ile	Asn	Ile
		210					215					220			
Phe	Ala	Ala	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Ile	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Val	Ser	His	Ile	Thr	Val	Val	Thr	Met	Phe	Ser	Ile
				245					250					255	
Pro	Cys	Met	Val	Met	Tyr	Met	Arg	Pro	Gly	Ser	Glu	Ser	Ser	Pro	Glu
			260					265					270		
Glu	Asp	Lys	Lys	Leu	Ala	Leu	Phe	Tyr	Asn	Val	Ile	Ser	Ala	Phe	Leu
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Arg	Ala	Phe
	290					295					300				
Leu	Lys	Val	Val	Gly	Ser	Arg	Lys	Gly	Ser	Glu					
305					310					315					

<210> 2490  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2490

Met	Thr	Arg	Asn	Phe	Thr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu
1			5						10					15	
Thr	Ser	His	Val	Glu	Leu	Gln	Ile	Leu	Phe	Phe	Val	Leu	Phe	Leu	Val
			20					25					30		
Val	Tyr	Val	Val	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile
		35					40					45			
Lys	Ala	Asn	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Val	Asp	Met	Cys	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Gln	Ile	Phe	Leu	Ser	Glu	Arg	Lys	Thr	Ile	Ser	Tyr	Ser	Ala	Cys
			85						90					95	
Leu	Val	Gln	Cys	Tyr	Leu	Phe	Ile	Ala	Leu	Val	His	Val	Glu	Phe	Tyr
		100						105					110		
Ile	Leu	Ala	Leu	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Leu	Tyr	Gly	Ser	Lys	Met	Ser	Gln	Ser	Val	Cys	Thr	Ser	Leu	Ile
	130					135					140				
Thr	Val	Pro	Tyr	Val	Tyr	Gly	Ala	Leu	Thr	Gly	Leu	Met	Glu	Thr	Met
145					150					155					160
Trp	Thr	Tyr	Asn	Leu	Ala	Phe	Cys	Gly	His	Asn	Glu	Ile	Asn	His	Phe
			165						170					175	
Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr
			180					185					190		
His	Lys	Glu	Thr	Ser	Met	Leu	Val	Val	Ala	Gly	Phe	Asn	Leu	Ser	Phe
		195					200					205			
Ser	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Leu	Tyr	Ile	Phe	Pro	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Ser	Ser	Thr	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Thr	Ala	Val	Ile	Ile	Phe	Tyr	Ala	Thr	Leu	Phe	Phe
			245						250					255	
Met	Tyr	Leu	Arg	Pro	Thr	Ser	Arg	Glu	Ser	Val	Glu	Gln	Gly	Lys	Met
			260					265					270		
Val	Ala	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Ile	Ser	Lys	Glu	Leu
	290					295					300				
Ser	His	Lys	Lys	Met	Tyr	Phe	Ser								
305					310										

<210> 2491

<211> 297

<212> PRT

<213> Mus musculus

<400> 2491

Leu	Leu	Gly	Phe	Thr	Ser	Asp	Pro	Thr	Thr	Gln	Leu	Val	Leu	Phe	Val
1			5						10					15	
Met	Phe	Leu	Ile	Met	Tyr	Thr	Leu	Ser	Val	Leu	Gly	Asn	Ile	Thr	Leu
			20					25					30		
Ile	Val	Leu	Ile	Cys	Asn	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
		35				40						45			
Phe	Ile	Gly	Asn	Leu	Ser	Phe	Leu	Asp	Leu	Trp	Leu	Ser	Asn	Val	Tyr
	50					55				60					
Thr	Pro	Lys	Ile	Leu	Ala	Ile	Cys	Ile	Ser	Glu	Asn	Lys	Ser	Ile	Ser
65					70					75					80

Phe	Ala	Ser	Cys	Val	Ala	Gln	Phe	Phe	Phe	Ser	Ala	Gly	Leu	Asp	Tyr	
				85					90					95		
Ser	Glu	Cys	Tyr	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	
			100					105					110			
Ile	Ser	Lys	Pro	Leu	Ile	Tyr	Ser	Gln	Ala	Ile	Ser	Met	Lys	Leu	Cys	
		115					120					125				
Ala	Phe	Phe	Val	Ala	Ala	Ser	Tyr	Met	Gly	Gly	Phe	Ile	Asn	Ser	Ser	
	130					135					140					
Ile	Ile	Thr	Lys	Lys	Thr	Phe	Thr	Phe	Asp	Phe	Cys	Asn	Asp	Asn	Val	
145					150				155						160	
Ile	Asp	Asp	Phe	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Val	Asn	Leu	Ala	Cys	
				165					170					175		
Gly	Gly	Lys	Glu	Gly	Tyr	Gln	Ala	Leu	Met	Tyr	Phe	Leu	Leu	Thr	Ser	
			180					185					190			
Asn	Val	Met	Ile	Pro	Ile	Ala	Leu	Ile	Leu	Ala	Ser	Tyr	Ile	Phe	Ile	
		195					200					205				
Ile	Ala	Thr	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Met	Lys	Ala	
	210					215					220					
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Ser	Val	Thr	Leu	Tyr	Tyr	Gly	
225					230					235					240	
Ser	Ile	Leu	Tyr	Ile	Tyr	Ser	Arg	Pro	Arg	Thr	Arg	Tyr	Ser	Leu	Asp	
				245					250					255		
Ser	Asp	Lys	Val	Val	Ser	Thr	Phe	Tyr	Thr	Val	Val	Phe	Pro	Met	Leu	
			260					265					270			
Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Met	
		275					280					285				
Asn	Lys	Leu	Phe	Lys	Ile	Ile	Pro	Leu								
	290					295										

<210> 2492

<211> 314

<212> PRT

<213> Mus musculus

<400> 2492

Met	Gly	Pro	Ala	Asn	Lys	Ser	Gln	Leu	Ser	Pro	Ser	Thr	Phe	Trp	Leu	
1				5					10					15		
Met	Gly	Ile	Pro	Gly	Leu	Glu	His	Leu	His	Val	Trp	Ile	Gly	Ile	Pro	
			20					25					30			
Phe	Cys	Ser	Met	Tyr	Met	Val	Ala	Leu	Met	Gly	Asn	Val	Thr	Ile	Leu	
		35					40					45				
Ala	Val	Val	Arg	Ala	Glu	Arg	Thr	Leu	His	Glu	Pro	Met	Phe	Leu	Phe	
	50					55				60						
Leu	Cys	Met	Leu	Ser	Val	Thr	Asp	Leu	Val	Leu	Ser	Thr	Ser	Thr	Leu	
65				70					75						80	
Pro	Arg	Met	Leu	Cys	Leu	Phe	Trp	Met	Ala	Ala	His	Asp	Ile	Thr	Phe	
				85					90					95		
Asp	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Ser	Phe	Thr	Ala	Met	
		100						105					110			
Glu	Ser	Gly	Phe	Phe	Leu	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	
		115					120					125				
Cys	Asp	Pro	Leu	Arg	His	Ala	Thr	Ile	Leu	Thr	His	Ser	Arg	Ile	Ala	
	130					135					140					
Val	Met	Gly	Ala	Val	Val	Val	Leu	Arg	Gly	Val	Gly	Phe	Phe	Ser	Pro	
145					150					155					160	
His	Pro	Ile	Leu	Leu	Lys	Gln	Leu	Pro	Tyr	Cys	Arg	Thr	Arg	Ile	Ile	
			165						170					175		
Ala	His	Thr	Tyr	Cys	Glu	Phe	Met	Ala	Val	Val	Lys	Leu	Ala	Cys	Leu	



Ser	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Thr	Leu
	290					295					300				
Ser	Arg	Ser	Ser	Phe	Ser										
305					310										

<210> 2494  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2494

Met	Phe	Gln	Ile	Leu	Arg	Asp	Ser	Ser	Ser	Ser	Arg	Phe	Gln	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Met	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp
			20					25					30		
Leu	Ser	Leu	Pro	Leu	Ala	Leu	Leu	Tyr	Val	Leu	Ala	Leu	Ile	Ala	Asn
		35					40					45			
Ile	Leu	Ile	Val	Thr	Phe	Ile	Tyr	Gln	Glu	Ala	Ser	Leu	His	Gln	Pro
	50					55					60				
Met	Tyr	His	Phe	Leu	Gly	Ile	Leu	Ala	Ile	Val	Asp	Met	Gly	Leu	Ala
65					70					75					80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala	Ile	Leu	Trp	Phe	Asn	Ala	Lys
				85					90					95	
Ala	Ile	Ser	Phe	Asn	Glu	Cys	Phe	Ala	Gln	Met	Tyr	Ala	Ile	His	Cys
			100					105					110		
Phe	Val	Ala	Met	Glu	Ser	Asp	Ile	Phe	Val	Cys	Met	Ala	Ile	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Arg	Arg	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Val	Thr	Glu
	130					135					140				
Ser	Phe	Val	Val	Lys	Ala	Thr	Val	Ile	Met	Ala	Phe	Arg	Asn	Phe	Val
145					150					155					160
Ala	Pro	Met	Ser	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Asn	Tyr	Cys	Ser
				165					170					175	
Arg	Asn	Gln	Ile	Asn	His	Cys	Phe	Cys	Pro	Asn	Pro	Gly	Val	Thr	Ser
			180				185						190		
Leu	Ala	Cys	Asp	Asp	Arg	Lys	Ile	Asp	Ser	Ile	Asn	Gln	Leu	Phe	Leu
	195						200					205			
Ala	Trp	Ala	Val	Met	Gly	Ser	Asp	Leu	Gly	Leu	Ile	Ile	Val	Ser	Tyr
	210				215						220				
Ala	Leu	Ile	Leu	Pro	Ser	Val	Leu	Arg	Leu	Asn	Ser	Pro	Lys	Ala	Ala
225					230					235					240
Ser	Gln	Thr	Leu	Ser	Thr	Cys	Thr	Ser	His	Leu	Ile	Leu	Ile	Phe	Phe
				245					250					255	
Phe	Tyr	Thr	Val	Ile	Ile	Val	Met	Pro	Ile	Thr	His	Ser	Ala	Lys	Met
			260					265					270		
Thr	Val	Pro	Val	Ile	Leu	Leu	Leu	Leu	Asn	Val	Pro	His	Asn	Val	Ile
		275					280					285			
Pro	Pro	Ala	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Lys	Asn	Lys	Glu	Leu
	290					295					300				
Lys	Glu	Gly	Phe	Tyr	Leu	Cys	Ser	Gly	Trp						
305					310										

<210> 2495  
 <211> 319  
 <212> PRT

<213> Mus musculus

<400> 2495

Met	Ser	Ala	Ser	Leu	Lys	Ala	Phe	Asn	Ser	Ser	Lys	Ser	Gln	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp	
			20				25					30			
Leu	Ser	Leu	Pro	Phe	Thr	Leu	Leu	Tyr	Leu	Ser	Ala	Ile	Gly	Thr	Asn
		35					40					45			
Val	Leu	Ile	Leu	Ile	Ile	Ile	Cys	Gln	Asp	Pro	Ser	Leu	Lys	Gln	Pro
	50					55				60					
Met	Tyr	Leu	Phe	Leu	Gly	Ile	Leu	Ser	Val	Val	Asp	Met	Gly	Leu	Ala
65					70					75					80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala	Ile	Phe	Trp	Phe	Asp	Ala	Lys
				85					90					95	
Val	Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Ile	Tyr	Ala	Ile	His	Cys
			100					105					110		
Phe	Val	Gly	Met	Glu	Ser	Gly	Ile	Phe	Leu	Cys	Met	Ala	Phe	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Ile	Thr	Asn
	130					135					140				
Ser	Leu	Ile	Leu	Lys	Ala	Thr	Leu	Phe	Met	Val	Leu	Arg	Asn	Gly	Leu
145					150					155					160
Cys	Val	Ile	Pro	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Asn	Tyr	Cys	Ser
				165					170					175	
Arg	Asn	Glu	Ile	Asp	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Thr	Ser
			180					185					190		
Leu	Ala	Cys	Asp	Asp	Arg	Arg	Pro	Asn	Ser	Ile	Cys	Gln	Leu	Ile	Leu
		195					200					205			
Ala	Trp	Val	Gly	Met	Gly	Ser	Asp	Leu	Gly	Leu	Ile	Ile	Leu	Ser	Tyr
	210					215					220				
Thr	Leu	Ile	Leu	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Ala	Glu	Ala	Val
225					230					235					240
Ser	Lys	Ala	Leu	Asn	Thr	Cys	Ser	Ser	His	Leu	Ile	Leu	Ile	Leu	Phe
				245					250					255	
Phe	Tyr	Thr	Val	Val	Val	Val	Ile	Ser	Val	Thr	His	Leu	Ser	Glu	Thr
			260					265					270		
Lys	Ala	Thr	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Met	His	Asn	Ile	Thr
		275					280					285			
Pro	Pro	Ser	Leu	Asn	Pro	Ile	Val	Tyr	Ala	Leu	Arg	Thr	Arg	Gln	Leu
	290					295					300				
Arg	Gln	Gly	Phe	Gln	Lys	Val	Leu	Cys	Arg	Ser	Leu	Gln	Glu	Lys	
305					310					315					

<210> 2496

<211> 314

<212> PRT

<213> Mus musculus

<400> 2496

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Val	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Ile
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				

Phe	Leu	Ser	His	Leu	Ala	Ser	Ile	Asp	Ile	Ala	Ile	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Val	Val	Asn	Phe	Leu	Val	Glu	Arg	Ser	Ser	Ile	Ser
				85					90					95	
Tyr	Ile	Gly	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ala	Val	Phe	Phe	Gly	Ala
			100					105						110	
Ile	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Lys	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Ile	His	Ala	Ser
145					150					155					160
Phe	Phe	Thr	Leu	Ser	Phe	Val	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170						175
Ile	Asn	His	Phe	Phe	Cys	Asp	Phe	Thr	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Asn	Ser	Val	Leu	Ile	Ile	Leu	Asp	Ser	Phe	Ser	Thr	Gly	Thr
		195					200					205			
Ile	Ile	Val	Ile	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Cys	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	His	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Leu	Tyr	Gly
				245					250					255	
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp
			260					265						270	
Gln	Asn	Lys	Val	Ile	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Lys	Gln	Leu	Gly	Glu	Lys	Asn	Ile	Phe						
305					310										

<210> 2497

<211> 314

<212> PRT

<213> Mus musculus

<400> 2497

Met	Ala	Phe	Leu	His	Asn	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Phe	Arg	Val	Ile	Leu	Phe	Thr
			20				25					30			
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Val	Glu	Lys	Asn	Thr	Ile	Ser
				85					90					95	
Tyr	Leu	Gly	Cys	Thr	Ile	Gln	Leu	Ser	Leu	Ala	Ala	Phe	Cys	Gly	Thr
			100					105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Met	Ala
		115					120					125			
Ile	Cys	Ser	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Ile	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser



145					150					155				160	
Ser	Phe	Thr	Leu	Phe	Phe	Leu	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Ile	Asn	His	Phe	Tyr	Cys	Asp	Phe	Ala	Pro	Leu	Val	Ala	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Val	Ser	Val	Ser	Glu	Val	Val	Thr	Ser	Phe	Phe	Ser	Gly	Ser
		195					200					205			
Val	Thr	Met	Ile	Thr	Met	Leu	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235				240	
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
				245					250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Phe	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Asp	Ala	Leu
	290					295				300					
Lys	Arg	His	Leu	Gly	Lys	Lys	Ile	Phe	Ser						
305					310										

<210> 2498  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2498

Met	Arg	Asn	Ile	Thr	Glu	Ala	Thr	Phe	Phe	Val	Leu	Lys	Gly	Leu	Thr
1				5					10					15	
Asp	Asn	Asn	Glu	Leu	Gln	Ile	Ile	Leu	Phe	Leu	Leu	Phe	Leu	Ala	Ile
			20					25					30		
Tyr	Ile	Phe	Thr	Leu	Ile	Gly	Asn	Val	Gly	Leu	Ile	Ile	Leu	Val	Val
		35				40						45			
Gly	Asp	Ser	Gln	Leu	His	Asn	Pro	Met	Tyr	Cys	Phe	Leu	Ser	Val	Leu
	50					55				60					
Ser	Ser	Val	Asp	Ala	Cys	Tyr	Ser	Thr	Asp	Ile	Thr	Pro	Asn	Met	Leu
65					70					75				80	
Val	Gly	Phe	Met	Ser	Lys	Ser	Lys	Ile	Ile	Ser	Phe	Tyr	Gly	Cys	Ala
			85					90					95		
Thr	Gln	Met	Phe	Leu	Ala	Val	Thr	Phe	Gly	Thr	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	His	Asp	Pro	Leu
	115					120						125			
Leu	Tyr	Ala	Val	Ser	Met	Ser	Pro	Arg	Val	Tyr	Ile	Pro	Leu	Ile	Ile
	130					135					140				
Ala	Ser	Tyr	Ala	Gly	Gly	Ile	Val	His	Ala	Ile	Ile	His	Thr	Val	Ala
145					150					155				160	
Thr	Phe	Ser	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Glu	Val	Lys	His	Ile	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser	Cys	Ser	Glu	Thr	Tyr	Val
			180					185				190			
Asn	Glu	Leu	Leu	Leu	Phe	Phe	Phe	Val	Ser	Phe	Ile	Glu	Leu	Val	Thr
	195						200					205			
Ile	Leu	Ile	Val	Leu	Val	Ser	Tyr	Ala	Phe	Ile	Leu	Leu	Ser	Ile	Leu
	210					215					220				
Lys	Met	Asn	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Val	Phe	Ser	Thr	Cys	Gly
225					230					235				240	

Ala	His	Leu	Thr	Ala	Val	Ser	Ile	Tyr	Tyr	Gly	Thr	Ile	Leu	Phe	Met
				245					250					255	
Tyr	Val	Arg	Pro	Ser	Ser	Asn	Tyr	Ser	Leu	Glu	His	Asp	Met	Ile	Val
			260					265					270		
Ser	Thr	Phe	Tyr	Thr	Ile	Gly	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Met	Lys	Arg	Val	Leu	Arg
	290					295					300				
Lys	Lys	Ile	Asn												
305															

<210> 2499

<211> 315

<212> PRT

<213> Mus musculus

<400> 2499

Met	Trp	Met	Ile	Pro	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile
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Leu	Ile	Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile
		20						25					30		
Val	Phe	Leu	Leu	Met	Tyr	Leu	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	
		35					40				45				
Ile	Met	Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Cys	Thr	Leu	Ser	Leu	Leu	Asp	Met	Gly	Tyr	Val	Thr	Thr	Thr
65					70				75					80	
Met	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser
				85					90					95	
Phe	Ala	Gly	Cys	Trp	Leu	Gln	Met	Tyr	Val	Phe	Gly	Ala	Leu	Gly	Met
		100						105					110		
Thr	Glu	Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	His	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys
	130					135					140				
Ile	Arg	Leu	Ala	Gly	Gly	Ser	Trp	Ile	Cys	Gly	Leu	Phe	Ser	Ser	Leu
145				150						155					160
Leu	His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg
			165						170					175	
Ile	Asn	His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys
		180						185					190		
Met	Asp	Thr	His	Val	Ile	Glu	Met	Val	Asp	Phe	Val	Leu	Ser	Val	Phe
	195						200					205			
Val	Val	Val	Ile	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Gly	Ile
	210					215					220				
Ala	Met	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Asn	Gln	Gly	Arg	Cys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala
			245						250					255	
Pro	Ala	Ser	Tyr	Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu
		260						265					270		
Arg	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Asn	Val	Phe	Thr	Ala	Leu	Leu
		275					280					285			
Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe
	290					295					300				
Leu	Lys	Val	Met	Gly	His	Gly	Arg	Leu	Ala	Trp					
305					310					315					

<210> 2500  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2500  
 Met Glu Arg Glu Asn Gln Thr Gly Glu Arg Asn Phe Leu Leu Leu Gly  
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 Phe Thr Glu Asp Ser Asp Leu Gln Ser Phe Phe Phe Gly Leu Leu Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Ile Thr Gly Asn Leu Leu Ile Ile Val Ala  
 35 40 45  
 Ile Ile Ser Asp Pro His Leu His Met Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Ile Ala Asp Ile Gly Phe Thr Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Val Leu Gln Asn Ile Arg Thr Gln Ser Lys Phe Ile Ser Phe Ser Gly  
 85 90 95  
 Cys Ile Thr Gln Ile Phe Phe Phe Ile Val Phe Gly Cys Leu Asp Asn  
 100 105 110  
 Leu Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Val Val Ile Met Asn Ser Cys Phe Cys Ala Met Leu  
 130 135 140  
 Ala Leu Gly Ser Trp Ile Val Ser Val Met Ser Ser Leu Pro Glu Thr  
 145 150 155 160  
 Leu Thr Val Leu Arg Leu Ser Phe Cys Thr Asn Met Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Leu Pro Glu Val Leu Lys Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Leu Val Asn Asn Ile Val Thr Tyr Ser Ile Thr Ile Val Ile Ala Gly  
 195 200 205  
 Phe Pro Phe Ser Gly Ile Leu Leu Ser Tyr Ser Lys Ile Phe Ser Ser  
 210 215 220  
 Ile Leu Arg Ile Pro Ser Ala Gly Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Leu Val Val Phe Leu Phe Tyr Ser Asn Gly Leu  
 245 250 255  
 Gly Val Tyr Leu Ser Ser Ala Ala Thr Ser Ser Ser Arg Met Ser Leu  
 260 265 270  
 Val Ala Ser Leu Met Tyr Ser Ile Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Ile Tyr Ser Leu Arg Ile Ser  
 290 295 300  
 Cys Ile His Thr Asn Met Ile Ile Asn Lys Lys Ser Gln Lys Phe Lys  
 305 310 315 320  
 Arg Asp Thr Gly Thr Asn Cys  
 325

<210> 2501  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> CONFLICT  
 <222> (10)...(17)

<223> Any amino acid

<400> 2501

Ser	Met	Ile	Ile	Trp	Val	Cys	Leu	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
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Xaa	Lys	Val	Gln	Leu	Pro	Leu	Phe	Leu	Phe	Val	Ala	Ile	Tyr	Leu	
			20					25				30			
Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met	Ile	Ala	Leu	Ile	Gly	Ile	Ser
		35					40					45			
Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Ser	Leu	Ser	Phe
	50					55				60					
Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Ser
65					70					75					80
Leu	Leu	Thr	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly	Cys	Met	Val	Gln
				85					90					95	
Leu	Tyr	Phe	Phe	Ile	Ser	Phe	Gly	Thr	Ala	Glu	Cys	Tyr	Thr	Leu	Ala
			100					105					110		
Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr
		115					120					125			
Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu	Ile	Ser	Gly	Val
	130					135					140				
Tyr	Ile	Tyr	Ala	Val	Phe	Cys	Ala	Ser	Val	Asn	Thr	Gly	Phe	Ile	Ile
145					150					155					160
Arg	Ile	Gln	Phe	Cys	Lys	Leu	Asn	Val	Ile	Asn	His	Tyr	Phe	Cys	Asp
				165					170					175	
Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asn	Thr	Tyr	Ile	Asn	Glu
			180					185					190		
Ile	Leu	Ile	Leu	Phe	Phe	Gly	Ser	Val	Asn	Ile	Cys	Val	Pro	Met	Leu
	195					200						205			
Thr	Val	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Ile
	210					215					220				
Arg	Ser	Ser	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His
225					230					235					240
Ile	Ser	Ala	Val	Ala	Ile	Leu	Tyr	Gly	Ser	Thr	Ala	Phe	Thr	Tyr	Leu
				245					250					255	
Gln	Pro	Ser	Ser	Val	Ser	Leu	Val	Asp	Gln	Gly	Lys	Val	Ser	Ser	Val
			260					265					270		
Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275					280						285			
Arg	Asn	Lys	Asp	Val	Thr	Leu	Ala	Leu	Lys	Arg	Ile	Leu	Glu	Gln	Lys
	290					295					300				
Arg	Leu	Tyr	Val	Ser	Arg	Ser	Arg	Val	Lys	Ile	Ile	Asn			
305					310					315					

<210> 2502

<211> 286

<212> PRT

<213> Mus musculus

<400> 2502

Leu	Pro	Leu	Phe	Val	Leu	Phe	Leu	Met	Asn	Tyr	Thr	Ala	Thr	Val	Met
1				5					10					15	
Gly	Asn	Leu	Ser	Leu	Met	Ser	Leu	Ile	Cys	Leu	Asn	Ser	Asn	Leu	His
			20					25					30		
Thr	Pro	Met	Tyr	Phe	Phe	Ile	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys
		35					40					45			
Tyr	Ser	Leu	Val	Ser	Thr	Pro	Lys	Met	Leu	Met	Ser	Phe	Leu	Leu	Glu
	50					55					60				

Lys	Asn	Thr	Ile	Ser	Phe	Arg	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Tyr
65					70					75					80
Cys	Val	Phe	Val	Asn	Ser	Glu	Ser	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr
				85					90					95	
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln	Pro	Leu	Met	Tyr	Lys	Ile	Ile	Met
			100					105					110		
Ser	Pro	Lys	Ile	Cys	Cys	Leu	Leu	Ile	Phe	Gly	Ser	Phe	Leu	Met	Gly
		115					120					125			
Phe	Val	Ser	Ala	Ile	Ile	His	Thr	Gly	Cys	Met	Val	Arg	Leu	Ser	Phe
	130					135					140				
Cys	His	Ser	Lys	Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu
145					150					155					160
Leu	Gln	Leu	Ser	Cys	Ser	Ser	Thr	Tyr	Val	Asn	Glu	Leu	Met	Ser	Tyr
				165					170					175	
Val	Val	Val	Gly	Thr	Ser	Ile	Ile	Leu	Cys	Cys	Leu	Ile	Ile	Leu	Ile
			180					185					190		
Ser	Tyr	Ala	Met	Ile	Leu	Phe	Ser	Ile	Ile	His	Met	Ser	Ser	Gly	Lys
		195					200					205			
Gly	Trp	Ser	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val
	210					215					220				
Ser	Leu	Phe	Tyr	Gly	Ser	Gly	Leu	Leu	Ala	Tyr	Val	Asn	Pro	Ser	Ser
225					230					235					240
Ala	Glu	Thr	Val	Gly	Gln	Ala	Lys	Phe	Phe	Ser	Val	Phe	Tyr	Thr	Leu
				245					250					255	
Leu	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
			260					265					270		
Val	Lys	Leu	Ala	Val	Lys	Lys	Thr	Trp	Lys	Arg	Ile	Thr	Ser		
		275					280					285			

<210> 2503

<211> 330

<212> PRT

<213> Mus musculus

<400> 2503

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Thr	Val	Thr	Glu	Phe	Ile
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Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Asp	Ile	Leu	Phe	Ile
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Ile	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Ile	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Ala	Thr	Phe	Leu	Val	Lys	Gln	Asn	Thr	Ile	Ser
				85					90					95	
Tyr	Ile	Gly	Cys	Ser	Ile	Gln	Phe	Thr	Ser	Ala	Ala	Phe	Phe	Gly	Thr
			100					105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Glu	Ala	Cys
	130					135					140				
Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gln	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Phe	Thr	Leu	Ser	Phe	Phe	Ser	Leu	Phe	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Ile	Asn	Asp	Phe	Tyr	Cys	Asp	Phe	Ala	Pro	Leu	Leu	Glu	Leu	Ser	Cys



Phe	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly	His	Asn
			260					265					270		
Val	Pro	Gln	Tyr	Ile	His	Ile	Phe	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val
		275					280					285			
Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile
	290					295					300				
Arg	Glu	Gln	Val	Met	Arg	Ile	Leu	Phe	Arg	Lys	Asp	His			
305					310					315					

<210> 2505

<211> 333

<212> PRT

<213> Mus musculus

<400> 2505

Met	Thr	Pro	Leu	Leu	Tyr	Phe	Ala	Pro	Leu	Arg	Ala	Ala	Arg	Gly	Ser
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Thr	Ala	Ala	Thr	Arg	Gly	Gln	Asn	Asp	Ser	Ser	Val	Ala	Glu	Phe	Ile
			20					25					30		
Leu	Leu	Gly	Phe	Ser	Ala	Phe	Pro	Glu	Leu	Gln	Gly	Gln	Met	Phe	Gly
		35					40					45			
Ala	Phe	Leu	Val	Ile	Tyr	Leu	Val	Thr	Leu	Met	Gly	Asn	Ala	Thr	Ile
	50					55					60				
Val	Ala	Val	Ile	Leu	Leu	Asp	Gln	Ser	Leu	His	Ile	Pro	Met	Tyr	Leu
65				70						75					80
Phe	Leu	Gln	Asn	Leu	Ser	Val	Val	Glu	Met	Ser	Phe	Ser	Ala	Ala	Ile
			85					90					95		
Thr	Pro	Glu	Met	Leu	Val	Val	Leu	Thr	Ser	Glu	Lys	Ala	Thr	Ile	Ser
			100					105					110		
Phe	Gly	Gly	Cys	Phe	Ala	Gln	Met	Tyr	Phe	Ile	Leu	Leu	Phe	Gly	Gly
		115					120					125			
Thr	Glu	Cys	Phe	Leu	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ala	Ala
	130					135					140				
Ile	Cys	His	Pro	Leu	Ser	Tyr	Pro	Met	Ile	Met	Asn	Lys	Arg	Val	Phe
145				150						155					160
Val	Lys	Leu	Val	Ile	Phe	Ser	Trp	Val	Ser	Gly	Ile	Met	Val	Ala	Thr
			165					170					175		
Val	Gln	Thr	Thr	Trp	Val	Phe	Ser	Phe	Pro	Tyr	Cys	Asp	His	Lys	Glu
			180					185					190		
Ile	Asn	His	Leu	Phe	Cys	Glu	Thr	Pro	Pro	Val	Leu	Glu	Leu	Ala	Cys
	195						200					205			
Ala	Asp	Thr	Phe	Leu	Phe	Glu	Val	Tyr	Ala	Phe	Thr	Gly	Thr	Ile	Leu
	210					215					220				
Ile	Val	Met	Val	Pro	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Thr	Arg	Ile
225				230						235					240
Leu	Phe	Ser	Ile	Leu	Arg	Met	Pro	Ser	Thr	Thr	Gly	Arg	Gln	Lys	Ala
			245						250				255		
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ser	Val	Thr	Leu	Phe	Tyr	Gly
			260					265					270		
Thr	Ala	Ser	Ile	Thr	Tyr	Leu	Gln	Pro	Lys	Ser	Arg	Tyr	Ser	Pro	Asp
		275					280					285			
Thr	Lys	Lys	Leu	Met	Ser	Leu	Ala	Tyr	Thr	Leu	Leu	Thr	Pro	Leu	Leu
	290					295					300				
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Met	Lys	Arg	Ala	Val
305				310						315					320
Leu	Lys	Leu	Trp	Gln	Arg	Lys	Val	Ala	Leu	His	Arg	Gly			
			325						330						

<210> 2506  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2506  
 His Ser Ser Thr Val Glu Phe Ile Leu Leu Gly Phe Ser Asn Tyr Pro  
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 Glu Leu Gln Gly Gln Met Phe Gly Ala Phe Leu Val Ile Tyr Leu Val  
 20 25 30  
 Thr Val Leu Gly Asn Ala Ile Ile Ile Thr Ile Ile Phe Leu Asp Gln  
 35 40 45  
 Ser Leu His Ile Pro Met Tyr Leu Phe Leu Gln Asn Leu Ser Leu Val  
 50 55 60  
 Asp Phe Cys Phe Ser Thr Val Ile Thr Pro Glu Ile Leu Val Ile Leu  
 65 70 75 80  
 Thr Ser Glu Lys Ala Thr Ile Ser Phe Gly Gly Cys Phe Val Gln Met  
 85 90 95  
 Tyr Phe Ile Leu Leu Phe Gly Ala Thr Glu Cys Phe Leu Leu Gly Ala  
 100 105 110  
 Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His Pro Leu Thr Tyr Pro  
 115 120 125  
 Val Ile Met Ser Lys Arg Thr Phe Val Lys Leu Val Met Cys Pro Trp  
 130 135 140  
 Val Leu Ser Ile Met Thr Ala Val Leu Ser Val Thr Trp Val Ala Ser  
 145 150 155 160  
 Phe Pro Tyr Cys Asp His Lys Glu Ile Asn His Leu Phe Cys Glu Ile  
 165 170 175  
 Pro Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Leu Phe Glu Val  
 180 185 190  
 Tyr Ala Phe Thr Ser Thr Ile Leu Ile Val Met Val Pro Phe Leu Leu  
 195 200 205  
 Ile Leu Leu Ser Tyr Thr Arg Ile Leu Phe Ser Ile Leu Lys Met Pro  
 210 215 220  
 Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu  
 225 230 235 240  
 Thr Ser Val Ile Leu Phe Tyr Gly Thr Ala Ser Ile Thr Tyr Leu Gln  
 245 250 255  
 Pro Lys Ser Gly Tyr Ser Pro Asp Thr Lys Lys Leu Met Ser Leu Ala  
 260 265 270  
 Tyr Thr Leu Leu Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu Arg  
 275 280 285  
 Asn Lys Glu Met Lys Arg Ala Val Val Lys Leu Trp Gln Arg Lys Val  
 290 295 300  
 Thr Leu His Thr Gly  
 305

<210> 2507  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2507  
 Met Gly Phe Ser Asn Trp Thr Thr Ala Gln Glu Phe Ile Phe Ser Ala  
 1 5 10 15  
 Phe Pro Cys Ser Trp Gly Asp Ser Val Ile Cys Phe Ile Pro Leu Leu  
 20 25 30



Phe	Ile	Tyr	Ala	Phe	Ile	Ile	Val	Gly	Asn	Leu	Val	Ile	Ile	Thr	Val
	35						40					45			
Val	Gln	Leu	Asn	Ala	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50					55					60				
Ala	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Thr	Ala	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ser	Ser	Leu	Leu	Ser	Glu	Arg	Arg	Ser	Ile	Thr	Leu	Asn	Gly
				85					90					95	
Cys	Val	Leu	Gln	Met	Tyr	Phe	Phe	His	Ser	Thr	Gly	Ile	Ser	Glu	Val
			100					105					110		
Cys	Leu	Leu	Thr	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Ser
	115						120					125			
Pro	Leu	His	Tyr	Pro	Thr	Ile	Met	Thr	Ser	Arg	Leu	Cys	Ala	Gln	Leu
	130					135					140				
Thr	Leu	Gly	Cys	Cys	Val	Cys	Gly	Phe	Leu	Thr	Pro	Leu	Pro	Glu	Ile
145					150					155					160
Ala	Trp	Ile	Ser	Thr	Leu	Pro	Phe	Cys	Gly	Ser	Asn	His	Leu	Glu	His
				165					170					175	
Ile	Phe	Cys	Asp	Phe	Leu	Pro	Val	Leu	Arg	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
His	Thr	Ile	Val	Met	Ile	Gln	Val	Val	Asp	Ile	Val	His	Ala	Val	Glu
	195					200						205			
Ile	Ile	Thr	Ala	Val	Met	Leu	Ile	Phe	Met	Ser	Tyr	Val	Gly	Ile	Val
	210					215					220				
Ala	Val	Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Val	Ser	His	Leu	Thr	Val	Phe	Leu	Leu	Phe	Phe	Gly	Ser
				245					250					255	
Val	Ala	Leu	Met	Tyr	Leu	Arg	Phe	Ser	Ala	Thr	Tyr	Ser	Leu	Phe	Trp
			260					265					270		
Asp	Thr	Ala	Ile	Ala	Leu	Ala	Phe	Ala	Val	Leu	Ser	Pro	Phe	Phe	Asn
		275					280					285			
Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Glu	Ala	Ile	Lys
	290					295					300				
Lys	His	Ile	Gly	Gln	Ala	Gly	Ile	Leu	Ile	Gly	Lys	Ser	Arg	Asn	Leu
305				310						315					320
Pro															

<210> 2508

<211> 315

<212> PRT

<213> Mus musculus

<400> 2508

Met	His	Ser	Arg	Gly	Trp	Arg	Asn	His	Ser	Ser	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Phe	Ser	Arg	Asn	Pro	Arg	Thr	Asn	Trp	Ile	Leu	Phe	Phe
			20					25					30		
Leu	Phe	Leu	Phe	Leu	Tyr	Leu	Phe	Thr	Ile	Leu	Gly	Asn	Gly	Leu	Ile
	35						40				45				
Val	Thr	Leu	Ile	Arg	Ile	Asp	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	Ile	Leu	Ser	Leu	Leu	Asp	Leu	Ser	Tyr	Ala	Thr	Thr	Thr
65					70					75					80
Val	Pro	Gln	Met	Leu	Ala	His	Leu	Val	Ser	Lys	Thr	Lys	Thr	Ile	Ser
				85					90					95	
Tyr	Thr	Gly	Cys	Val	Ile	Gln	Met	Tyr	Ile	Phe	Leu	Thr	Leu	Gly	Ile



Tyr	Val	Asn	Glu	Ile	Val	Leu	Phe	Ile	Leu	Ala	Ser	Phe	Asn	Val	Phe
		195					200					205			
Phe	Ala	Leu	Ile	Val	Ile	Leu	Thr	Ser	Tyr	Ala	Phe	Ile	Phe	Ile	Ala
	210					215					220				
Ile	Leu	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Val	Ile
				245					250					255	
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Asn	Asp	Gln
			260					265					270		
Met	Ala	Ser	Val	Phe	Tyr	Thr	Thr	Ile	Val	Pro	Met	Leu	Asn	Pro	Val
		275					280					285			
Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	His	Asn	Ala	Phe	Lys	Lys	Val
	290					295					300				
Val	Glu	Lys	Met	Asn	Thr	Leu	Leu	Asn	Ser						
305					310										

<210> 2510

<211> 312

<212> PRT

<213> Mus musculus

<400> 2510

Met	Thr	Leu	Val	Lys	Asn	Trp	Thr	Tyr	Val	Thr	Glu	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Thr	Asp	Asp	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Val	Ile	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu
		35					40					45			
Leu	Ile	Phe	Leu	Asp	Ser	Gln	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Gly	Asn	Leu	Ser	Leu	Val	Asp	Val	Cys	Tyr	Ser	Ser	Ala	Val	Thr	Pro
65					70					75					80
Lys	Val	Ile	Ala	Gly	Leu	Leu	Ile	Gly	Asp	Lys	Phe	Ile	Ser	Tyr	Asn
				85					90					95	
Asp	Cys	Ala	Ala	Gln	Met	Phe	Phe	Phe	Ala	Ala	Phe	Ala	Thr	Val	Glu
			100					105					110		
Asn	Tyr	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	
		115				120					125				
Lys	Pro	Leu	His	Tyr	Thr	Thr	Thr	Met	Thr	Ser	Asn	Val	Cys	Ile	Cys
	130					135					140				
Leu	Ile	Met	Gly	Cys	Tyr	Gly	Phe	Ser	Phe	Leu	Asn	Val	Ser	Val	Tyr
145					150					155					160
Leu	Gly	Asp	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Asn	Ser	Asn	Val	Val	His
				165					170					175	
His	Phe	Phe	Cys	Asp	Met	Pro	Ala	Ile	Met	Ala	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Lys	His	Val	Asn	Glu	Leu	Val	Leu	Ile	Tyr	Leu	Ala	Ser	Phe	Asn	Ile
		195					200					205			
Phe	Val	Ala	Phe	Ile	Met	Ile	Ile	Val	Ser	Tyr	Leu	Ile	Ile	Phe	Ile
	210					215					220				
Thr	Ile	Leu	Asn	Met	Arg	Ser	Arg	Ala	Gly	Val	Gln	Lys	Ala	Leu	Ser
225					230					235					240
Thr	Cys	Val	Ser	His	Leu	Thr	Ala	Val	Phe	Ile	Phe	Tyr	Gly	Thr	Ile
				245					250					255	
Ile	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Arg	His	Ala	Met	Asp	Thr	Asp
			260					265					270		
Lys	Ile	Val	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro

	275		280		285										
Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Met	Lys
	290				295						300				
Ile	Val	Leu	Lys	Glu	Lys	Ser	Leu								
305					310										

<210> 2511  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2511

Met	Glu	Asn	Ile	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly	Ile	Thr
1				5					10					15	
Asp	Ala	Pro	Glu	Leu	Gln	Ile	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu	Ile
			20					25					30		
Tyr	Leu	Ile	Ala	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Met	Leu	Ile	Leu
		35					40					45			
Leu	Asp	Ser	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Val	Thr	Pro	Lys	Val	Met
65					70					75					80
Glu	Gly	Phe	Leu	Thr	Gly	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Gly	Ala	Ile	Glu	Ser	Leu	Ile
			100					105					110		
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Thr	Ser	Thr	Thr	Cys	Ile	Leu	Ile	Val	Thr
	130					135					140				
Cys	Cys	Tyr	Met	Cys	Gly	Ile	Leu	Gln	Ser	Ser	Ile	His	Val	Ala	Leu
145					150					155					160
Ala	Phe	Cys	Leu	Ser	Phe	Cys	Asn	Ser	Asn	Val	Ile	Asn	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Asp	Ile	Ser	Cys	Ser	Asp	Thr	Tyr	Thr
			180					185					190		
Asn	Glu	Ile	Thr	Val	Leu	Ile	Leu	Gly	Thr	Cys	Asp	Gly	Ile	Leu	Thr
		195					200					205			
Leu	Leu	Val	Ile	Leu	Asn	Thr	Tyr	Leu	Leu	Ile	Phe	Ile	Ala	Ile	Leu
	210					215					220				
Arg	Met	Arg	Ser	Ala	Glu	Ala	Gln	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225					230					235					240
Ser	His	Leu	Ile	Thr	Val	Phe	Ile	Phe	Phe	Gly	Ser	Thr	Leu	Phe	Met
				245					250					255	
Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Ala
			260					265					270		
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Val	Val	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Val	Gly
	290					295					300				
Lys	Leu	Met	Thr	Ser	Leu	Gln	Leu	Val	Asn						
305					310										

<210> 2512  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2512

```
Met Gly Asp Lys Glu Arg Asp Asn His Ser Glu Val Thr Asp Phe Ile
 1          5          10          15
His His Ser Glu Val Thr Asp Phe Ile Leu Val Gly Ile Arg Val Arg
          20          25          30
Pro Glu Leu His Ser Val Leu Phe Leu Leu Phe Leu Ile Ile Tyr Gly
          35          40          45
Met Val Leu Leu Gly Asn Leu Ser Met Ile Gly Ile Ile Val Thr Asp
          50          55          60
Pro Arg Leu Asn Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Val
65          70          75          80
Ile Asp Leu Ser Tyr Ser Thr Val Ile Val Pro Lys Ala Met Val Asn
          85          90          95
Ile Leu Ser Gln Lys Lys Thr Ile Ser Phe Val Gly Cys Ala Ala Gln
          100          105          110
Leu Phe Leu Tyr Ala Leu Phe Met Val Thr Glu Ala Phe Ile Leu Ala
          115          120          125
Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu Leu Tyr
          130          135          140
Ser Val Arg Met Ser Arg Ser Val Cys Val Gln Leu Val Ala Gly Ser
145          150          155          160
Tyr Leu Cys Gly Trp Val Ser Ser Ile Leu Gln Ile Ser Val Thr Phe
          165          170          175
Ser Met Ser Phe Cys Ala Ser Arg Val Ile Asp His Phe Tyr Cys Asp
          180          185          190
Ser Asn Pro Ile Glu Lys Ile Ser Cys Ser Asn Thr Phe Ile Asn Lys
          195          200          205
Met Val Ser Leu Ser Leu Ala Val Leu Ile Ile Leu Pro Thr Ile Ile
          210          215          220
Val Ile Val Val Ser Tyr Met Tyr Ile Val Ser Thr Val Leu Lys Ile
225          230          235          240
His Ser Ser Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser His
          245          250          255
Leu Gly Val Val Ser Leu Leu Tyr Gly Thr Val Ser Phe Val Tyr Leu
          260          265          270
Thr Pro Pro Asn Asn Pro Glu Leu Arg Lys Ile Ala Ser Val Cys Tyr
          275          280          285
Ile Leu Phe Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn
          290          295          300
Lys Asp Val Lys Asp Ala Met Lys Lys Val Leu Cys Lys Gln Lys Val
305          310          315          320
Leu Leu
```

<210> 2513

<211> 328

<212> PRT

<213> Mus musculus

<400> 2513

```
Met Ile Thr His Phe Ser Val Val Ser Val Phe Leu Thr Ala Phe Gly
 1          5          10          15
Ser Lys Asn Ser Ser Ile His Phe Val Thr Glu Phe Ile Leu Leu Gly
          20          25          30
Phe Ser Asn Gln Gly Glu Met Gln Ser Phe Phe Phe Cys Ser Ile Leu
          35          40          45
Ile Leu Tyr Leu Leu Thr Leu Leu Gly Asn Gly Thr Ile Val Cys Ala
```

50		55		60
Val Arg Trp Asp Gln Arg	Leu His Thr Pro Met Tyr Ile Phe Leu Gly			
65		70		75
Asn Phe Ala Phe Leu Glu Ile Trp Tyr Val Ser Ser Thr Ile Pro Asn				80
		85		90
Met Leu Val Asn Ile Leu Ser Glu Asn Lys Thr Ile Ser Phe Ser Ala				95
		100		105
Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys				110
		115		120
Phe Phe Leu Ser Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg				125
		130		135
Pro Leu His Tyr Pro Ser Ile Met Thr Arg Lys Phe Cys Val Ile Leu				140
145		150		155
Ile Cys Ile Cys Trp Val Ser Gly Phe Leu Cys Tyr Pro Val Pro Ile				160
		165		170
Val Leu Ile Ser Gln Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His				175
		180		185
Phe Val Cys Asp Pro Gly Pro Leu Phe Ala Leu Ser Cys Val Pro Ala				190
		195		200
Pro Ser Thr Glu Leu Leu Cys Tyr Thr Phe Asn Ser Met Ile Ile Phe				205
		210		215
Gly Pro Phe Phe Cys Ile Leu Gly Ser Tyr Thr Leu Val Leu Arg Ala				220
225		230		235
Val Phe Arg Val Pro Ser Gly Ala Gly Arg Thr Lys Ala Phe Ser Thr				240
		245		250
Cys Gly Ser His Leu Val Val Val Ser Leu Phe Tyr Gly Thr Leu Met				255
		260		265
Val Met Tyr Val Ser Pro Thr Ser Gly Asn Pro Ala Gly Met Gln Lys				270
		275		280
Ile Val Thr Leu Ile Tyr Ser Ala Leu Thr Pro Leu Leu Asn Pro Leu				285
		290		295
Ile Tyr Thr Leu Arg Asn Lys Glu Met Lys Asn Ala Leu Lys Lys Leu				300
305		310		315
Leu Lys Leu Thr Ile Ile Gln Asn				320
		325		

<210> 2514

<211> 314

<212> PRT

<213> Mus musculus

<400> 2514

Met Asn Val Ser Glu Gly Ser Thr Val Thr Tyr Phe Val Leu Leu Gly	
1	5
Phe Pro Gly Pro Trp Lys Ile Gln Ile Thr Leu Phe Ser Leu Ile Leu	
	10
	15
	20
Leu Leu Tyr Met Ile Thr Leu Thr Gly Asn Met Ala Ile Ile Cys Ala	
	25
	30
	35
	40
	45
Val Arg Trp Asn Gln Gln Leu His Thr Pro Met Tyr Met Phe Leu Ala	
	50
	55
Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Cys Thr Val Pro Asn	
65	70
	75
Met Leu Ile Asn Ser Leu Ser Lys Thr Lys Thr Ile Ser Phe Thr Gly	
	80
	85
	90
Cys Phe Thr Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys	
	95
	100
	105
	110
Phe Phe Leu Cys Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Tyr	
	115
	120
	125

Pro	Leu	His	Tyr	Pro	Ser	Ile	Met	Thr	Arg	Gln	Phe	Cys	Ser	Ile	Leu
	130					135					140				
Met	Ser	Leu	Cys	Trp	Ile	Ile	Gly	Phe	Ser	Ala	His	Leu	Ile	Pro	Ile
145					150					155					160
Phe	Leu	Ile	Ser	Gln	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His
				165					170					175	
Phe	Leu	Cys	Asp	Val	Asp	Pro	Leu	Ile	Ala	Leu	Ser	Cys	Thr	Pro	Thr
			180					185					190		
His	Ile	Ile	Ser	His	Val	Phe	Tyr	Ser	Ile	Ser	Thr	Leu	Ile	Ile	Ile
		195					200					205			
Leu	Thr	Gly	Leu	Tyr	Ile	Leu	Gly	Ser	Tyr	Ala	Leu	Val	Leu	Arg	Ala
	210					215					220				
Val	Leu	Gln	Val	Pro	Ser	Ser	Asp	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Met	
				245				250					255		
Val	Met	Tyr	Val	Ser	Pro	Thr	Ser	Gly	Asn	Ser	Val	Asp	Met	Asn	Lys
			260					265					270		
Ile	Ile	Thr	Leu	Ile	Tyr	Ser	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Tyr	Ala	Leu	His	His	Val
	290					295					300				
Phe	Phe	Gly	Asn	Ser	Ile	Met	Gln	Asn	Leu						
305					310										

<210> 2515

<211> 314

<212> PRT

<213> Mus musculus

<400> 2515

Lys	Asn	Lys	Asn	Ser	Ser	Asp	Val	Ser	Arg	Phe	Val	Leu	Leu	Gly	Leu
1				5					10					15	
Ser	Ser	Ser	Trp	Glu	Leu	Gln	Leu	Phe	Leu	Phe	Phe	Thr	Phe	Leu	Leu
			20					25				30			
Ile	Tyr	Leu	Val	Ile	Val	Leu	Gly	Asn	Leu	Leu	Ile	Val	Met	Val	Val
		35					40					45			
Gln	Ala	Asp	Ala	His	Leu	Phe	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55				60					
His	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Cys	Val	Ala	Val	Pro	Lys
65					70					75					80
Met	Leu	Gly	Asp	Phe	Leu	Gln	Lys	Glu	Lys	Thr	Ile	Ser	Phe	Ser	Gly
				85					90					95	
Cys	Leu	Ala	Gln	Val	Phe	Phe	Leu	His	Phe	Leu	Gly	Ala	Ser	Glu	Met
			100					105					110		
Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
			115					120				125			
Pro	Leu	His	Tyr	Leu	Thr	Val	Met	Asn	Asn	His	Leu	Arg	Leu	Arg	Leu
	130					135					140				
Val	Phe	Gly	Cys	Trp	Cys	Gly	Gly	Phe	Ile	His	Ser	Ile	Thr	Gln	Val
145					150					155					160
Met	Ile	Val	Ile	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Leu	Asp	Asn
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Val	Lys	Leu	Ala	Cys	Met	Asp	Thr
			180					185					190		
Tyr	Leu	Val	Glu	Val	Leu	Met	Val	Ser	Asn	Ser	Gly	Ile	Leu	Ser	Leu
		195					200					205			
Val	Cys	Phe	Leu	Val	Leu	Leu	Phe	Ser	Tyr	Ala	Leu	Ile	Leu	Ile	Thr

210		215		220
Leu Arg Thr His Leu His Arg Gly Gln Ser Lys Ala Leu Ser Thr Cys				
225		230		235
Ala Ser His Leu Thr Val Val Ser Leu Ile Phe Val Pro Cys Val Phe				
	245		250	255
Ile Tyr Leu Arg Pro Phe Cys Thr Phe Ser Val Asp Lys Val Val Ser				
	260		265	270
Val Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr				
	275		280	285
Leu Arg Asn Ala Asp Met Lys Gln Ala Ile Glu Lys Leu Arg Lys Lys				
	290		295	300
Gln Val Ala Ser His Cys Phe Ala Lys Gly				
305		310		

<210> 2516

<211> 326

<212> PRT

<213> Mus musculus

<400> 2516

Met Gln Ser Lys Tyr Val Asn Leu Gln Arg Ala Asn Lys Phe Lys Ile				
1	5	10	15	
Thr Asp Thr Asn Leu Ser Val Pro Ile Glu Phe Val Leu Leu Gly Phe				
	20	25	30	
Ser Asp Ile Pro Gln Leu His Trp Phe Leu Phe Gly Ile Phe Phe Phe				
	35	40	45	
Ile Tyr Met Ile Ile Leu Leu Gly Asn Gly Leu Ile Ile Leu Ile Thr				
	50	55	60	
Arg Val Glu Pro Thr Leu Gln Thr Pro Met Tyr Phe Phe Ile Ser Asn				
65	70	75	80	
Leu Ser Phe Leu Glu Ile Cys Tyr Val Ser Val Thr Leu Pro Arg Met				
	85	90	95	
Leu Met Asp Leu Phe Thr Leu Lys Gly Asn Ile Ser Phe Leu Ala Cys				
	100	105	110	
Ala Thr Gln Met Cys Leu Phe Leu Ile Leu Gly Gly Thr Glu Cys Phe				
	115	120	125	
Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro				
	130	135	140	
Leu His Tyr Pro Ile Val Met Ser Ser Lys Val Cys Thr Gln Leu Val				
145	150	155	160	
Val Gly Ser Trp Val Ile Gly Val Pro Ile Gln Val Gly Gln Thr Tyr				
	165	170	175	
Gln Ile Leu Ser Leu Pro Phe Cys Glu Ser Asn Gln Ile Asn His Phe				
	180	185	190	
Phe Cys Asp Met Pro Pro Leu Leu Arg Leu Ala Cys Gly Asn Ile Phe				
	195	200	205	
Val Asn Glu Leu Val Val Phe Ile Phe Val Val Leu Ile Val Thr Ile				
	210	215	220	
Pro Phe Met Leu Ile Leu Ala Ser Tyr Ser Arg Ile Ile Ser Thr Ile				
225	230	235	240	
Leu Lys Leu Pro Ser Lys Thr Gly Arg Thr Lys Ala Phe Ser Thr Cys				
	245	250	255	
Ser Ser His Leu Ile Val Val Phe Leu Phe Tyr Gly Ser Ala Ser Ile				
	260	265	270	
Thr Tyr Leu Lys Pro Lys Ser Asn Lys Phe Glu Gly Thr Asp Lys Leu				
	275	280	285	
Leu Ser Leu Phe Tyr Thr Ile Leu Thr Pro Met Phe Asn Pro Leu Ile				
	290	295	300	



Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Thr	Gly	Ala	Leu	Lys	Lys	Leu	Phe
305					310					315					320
Thr	Arg	Leu	Leu	Ala	Leu										
				325											

<210> 2517  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2517															
Met	Gly	Ala	Asn	Gln	Thr	Trp	Val	Thr	Asp	Phe	Ile	Leu	Val	Gly	Leu
1				5					10					15	
Gln	Leu	Ser	Ala	Gly	Ile	Glu	Met	Phe	Leu	Phe	Trp	Ile	Phe	Ser	Leu
			20					25					30		
Leu	Tyr	Ile	Phe	Ser	Leu	Leu	Ala	Asn	Gly	Ile	Ile	Leu	Val	Val	Ile
		35					40					45			
Cys	Leu	Asp	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Ile	Leu	Asp	Ile	Ser	Tyr	Ala	Ser	Asn	Asn	Val	Pro	Lys	Met
65					70					75					80
Leu	Ser	Asn	Leu	Ile	Asn	Gln	Lys	Arg	Thr	Ile	Ser	Phe	Ala	Pro	Cys
			85						90					95	
Ile	Thr	Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	Ala	Ser	Glu	Cys	Leu
			100					105					110		
Ile	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Ser	Trp	Lys	Val	Cys	Val	Ala	Leu	Ala
	130					135					140				
Val	Thr	Ser	Trp	Ser	Cys	Gly	Phe	Ser	Leu	Ser	Val	Ala	His	Thr	Ile
145					150					155					160
Leu	Leu	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Gln	Glu	Ile	Asn	His	Leu
			165					170						175	
Phe	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Leu
		180						185					190		
Ile	Asn	Gln	Ile	Val	Ile	Leu	Ala	Ala	Cys	Val	Phe	Val	Leu	Val	Gly
	195						200					205			
Pro	Leu	Cys	Ser	Met	Leu	Val	Ser	Tyr	Thr	His	Ile	Leu	Trp	Thr	Ile
	210					215					220				
Leu	Lys	Met	Gln	Ser	Lys	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ile	Ala	Met	Leu
			245						250					255	
Val	Tyr	Met	Val	Pro	Asp	Ser	Asp	Gln	Arg	Glu	Glu	Gln	Glu	Lys	Ile
		260						265					270		
Leu	Ser	Leu	Phe	His	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Thr	Gln	Val	Lys	Glu	Ala	Phe	His	Arg	Ala	Leu
	290					295					300				
Gln	Lys	Lys	Arg	Ser	Val										
305					310										

<210> 2518  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2518

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Met Asn Gln Thr Trp Ile Thr Glu Val Ile Leu Leu Gly Phe Gln Val
 1          5          10          15
Asp Pro Ser Leu Glu Met Leu Leu Phe Gly Leu Phe Leu Leu Phe Tyr
          20          25          30
Cys Leu Thr Leu Met Gly Asn Gly Ile Ile Leu Gly Leu Ile Cys Leu
          35          40          45
Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala
          50          55          60
Ile Val Asp Met Ser Tyr Ala Ser Ser Thr Ala Pro Lys Met Leu Thr
          65          70          75          80
Asn Met Val Met His Gln Lys Ser Ile Ser Phe Ala Ser Cys Ile Leu
          85          90          95
Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu Ile Leu
          100          105          110
Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Lys
          115          120          125
Tyr Thr Leu Ile Met Ser Trp Arg Val Cys Ser Ile Leu Ala Ala Thr
          130          135          140
Cys Trp Val Phe Ser Phe Leu Leu Ala Ser Leu His Ile Thr Leu Ile
          145          150          155          160
Leu Arg Leu Pro Phe Cys Gly Pro Gln Lys Val Asn His Phe Phe Cys
          165          170          175
Gln Ile Met Ser Val Phe Arg Leu Ala Cys Ala Asp Thr Arg Leu Asn
          180          185          190
Gln Val Val Leu Phe Ala Gly Ser Val Met Val Leu Leu Gly Pro Leu
          195          200          205
Cys Leu Val Leu Val Ser Tyr Thr Arg Ile Leu Val Ala Ile Leu Gly
          210          215          220
Ile His Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser Ser
          225          230          235          240
His Leu Cys Val Val Gly Leu Phe Phe Gly Cys Ala Ile Ala Met Tyr
          245          250          255
Met Ala Pro Lys Ser Lys His Ser Gln Glu Gln Arg Lys Ile Leu Ser
          260          265          270
Leu Phe Tyr Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile Tyr Ser
          275          280          285
Leu Arg Asn Thr Glu Val Lys Gly Ala Leu Arg Arg Val Leu Trp Lys
          290          295          300
Gln Arg Ser Leu
305
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<210> 2519

<211> 316

<212> PRT

<213> Mus musculus

<400> 2519

```
Met Ala Tyr Glu Val Val Asn Gln Ser Ser Ala Thr Thr Phe Ile Leu
 1          5          10          15
Val Gly Phe Ser Glu Tyr Pro Gln Leu Gln Ile Pro Leu Phe Leu Leu
          20          25          30
Phe Leu Thr Ile Tyr Ser Val Thr Leu Met Gly Asn Leu Gly Ile Leu
          35          40          45
Val Val Ile Lys Val Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe
          50          55          60
Leu Ser His Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val Phe Thr
          65          70          75          80
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Pro	Lys	Leu	Leu	Gln	Ile	Leu	Ile	Met	Glu	Asp	Arg	Thr	Ile	Ser	Phe
				85					90					95	
Ile	Gly	Cys	Met	Ile	Gln	Phe	Phe	Phe	Ile	Cys	Thr	Phe	Val	Ile	Thr
			100					105					110		
Glu	Met	Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Pro	Ile	Gln	Phe	Cys	Ala
	130					135					140				
Leu	Leu	Val	Ala	Gly	Thr	Tyr	Met	Ile	Gly	Gly	Leu	Cys	Thr	Leu	Ile
145					150					155					160
Ile	Leu	Tyr	Thr	Leu	Leu	Gln	Leu	Cys	Tyr	Phe	Glu	Tyr	Gly	Ile	Ile
				165					170					175	
Asn	His	Phe	Gly	Cys	Glu	Tyr	Ser	Ala	Val	Ile	Ser	Val	Ser	Cys	Ser
		180						185					190		
Asp	Ser	Ser	Phe	Ser	Gln	Leu	Ile	Cys	Leu	Val	Ile	Ser	Ile	Ala	Ser
		195					200					205			
Glu	Phe	Ser	Ser	Val	Leu	Ile	Thr	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val
	210					215					220				
Val	Thr	Ile	Ile	Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Gln	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Ile
				245					250					255	
Leu	Leu	Leu	Leu	Tyr	Cys	Ile	Pro	Asn	Ser	Asn	Ser	Ser	Arg	Leu	Phe
			260					265					270		
Val	Lys	Val	Ala	Thr	Ala	Leu	Tyr	Thr	Ile	Met	Ile	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg
	290					295					300				
Arg	Leu	Ile	Ser	Ser	Lys	Leu	His	Ser	His	Leu	Thr				
305					310					315					

<210> 2520

<211> 314

<212> PRT

<213> Mus musculus

<400> 2520

Met	Gln	Arg	Arg	Met	Glu	Gly	Glu	Asn	Cys	Ser	Ser	Phe	Thr	Glu	Phe
1				5					10					15	
Ile	Leu	Met	Gly	Ile	Thr	Asn	Asn	Ser	Glu	Val	Lys	Val	Val	Leu	Phe
			20					25					30		
Thr	Ile	Phe	Leu	Leu	Val	Tyr	Leu	Ile	Asn	Leu	Ile	Gly	Asn	Leu	Gly
		35					40					45			
Met	Ile	Leu	Leu	Ile	Lys	Val	Asp	Pro	Gln	Leu	Gln	Thr	Pro	Met	Tyr
		50				55					60				
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Cys	Asp	Leu	Cys	Tyr	Ser	Thr	Ala
65					70					75					80
Val	Gly	Pro	Lys	Met	Leu	Met	Asp	Ile	Phe	Gly	Asn	Asp	Lys	Ser	Ile
			85						90					95	
Gln	Phe	Phe	Gly	Cys	Ala	Leu	Gln	Phe	Phe	Ile	Ser	Cys	Thr	Phe	Val
			100					105					110		
Asp	Ser	Glu	Cys	Ile	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Gln
		115					120					125			
Ala	Ile	Ser	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Asn	Met	Ser	Asn	Arg	Leu
	130					135					140				
Cys	Ser	Leu	Leu	Val	Ala	Gly	Val	Tyr	Phe	Val	Gly	Val	Ala	Asp	Ser
145					150					155					160
Leu	Ile	His	Thr	Thr	Leu	Thr	Phe	His	Leu	Cys	Phe	Cys	Gly	Ser	Asn



Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Ala	Val	Ser	Leu	Phe	Tyr	Gly	Ser
			260					265					270		
Ile	Val	Gly	Val	Tyr	Phe	Leu	Pro	Ala	Ser	Ser	Tyr	Ser	Ala	Glu	Arg
		275					280					285			
Asp	Lys	Val	Ala	Ala	Ile	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn
	290					295					300				
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Arg	Ala	Leu	Arg
305					310					315					320
Arg	Leu	Leu	Ser	Gln	Lys	Ser	Leu	Ile	Cys	Ser	Trp				
				325					330						

<210> 2522

<211> 315

<212> PRT

<213> Mus musculus

<400> 2522

Met	Met	Gln	Asn	Ile	Ser	Glu	Leu	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Thr	Asp	Ala	Pro	Phe	Leu	Gln	Thr	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu
			20					25					30		
Ile	Tyr	Leu	Thr	Thr	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile
		35					40					45			
Leu	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn
	50					55					60				
Leu	Ser	Leu	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Val	Thr	Pro	Lys	Val
65					70					75					80
Ile	Glu	Gly	Phe	Leu	Thr	Glu	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	Ala	Cys
				85					90					95	
Ala	Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ala	Ile	Thr	Glu	Cys	Phe
			100					105					110		
Ile	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Thr	Thr	Met	Thr	Thr	Thr	Ile	Cys	Val	Leu	Leu	Leu
	130					135					140				
Ala	Gly	Ser	Tyr	Leu	Ser	Gly	Leu	Leu	Gln	Ser	Ser	Ile	His	Val	Ser
145					150					155					160
Phe	Thr	Phe	His	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Val	Val	Asn	His	Phe
				165					170					175	
Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Ser	Ile	His
			180					185					190		
Ile	Asn	Glu	Ile	Ile	Leu	Phe	Met	Leu	Ala	Gly	Phe	Asn	Val	Val	Phe
		195					200					205			
Ser	Leu	Leu	Val	Ile	Leu	Thr	Ser	Tyr	Leu	Leu	Ile	Ser	Val	Ala	Ile
	210					215					220				
Val	Arg	Met	Arg	Ser	Ala	Glu	Ser	Arg	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Thr	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe
				245					250					255	
Met	Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp	Lys	Met
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Val	Arg	Lys	Val	Ala
	290					295					300				
Gly	Lys	Ala	Leu	Phe	Ser	Leu	Gly	Leu	Val	Asn					
305					310					315					

<210> 2523  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2523  
 Met Asn Val Ser Phe Lys Thr Gly Phe Leu Leu Met Gly Phe Ser Asp  
 1 5 10 15  
 Glu Arg Asn Leu Gln Ile Leu His Ala Val Leu Phe Leu Ile Thr Tyr  
 20 25 30  
 Leu Leu Ala Ile Met Gly Asn Leu Leu Ile Ile Thr Ile Ile Thr Leu  
 35 40 45  
 Asp Gln Arg Leu His Ser Pro Met Tyr Tyr Phe Leu Lys His Leu Ser  
 50 55 60  
 Phe Leu Asp Leu Cys Phe Ile Ser Val Thr Val Pro Gln Ser Ile Ala  
 65 70 75 80  
 Asn Ser Leu Met Asn Asn Gly Phe Ile Ser Leu Gly Gln Cys Met Leu  
 85 90 95  
 Gln Val Phe Phe Phe Ile Ala Leu Ala Ser Ser Glu Val Ala Ile Leu  
 100 105 110  
 Thr Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu Gln  
 115 120 125  
 Tyr Glu Thr Ile Met Asp Pro His Ala Cys Lys Cys Ala Val Ile Ala  
 130 135 140  
 Val Trp Met Ala Gly Gly Leu Ser Gly Leu Leu His Thr Gly Val Asn  
 145 150 155 160  
 Phe Ser Ile Pro Leu Cys Gly Lys Arg Ile Ile His Gln Phe Phe Cys  
 165 170 175  
 Asp Ile Pro Gln Met Leu Lys Leu Ala Cys Ser Tyr Glu Phe Ile Asn  
 180 185 190  
 Glu Ile Ala Val Ala Ala Phe Thr Thr Ser Thr Ala Phe Val Cys Leu  
 195 200 205  
 Ile Ala Ile Val Phe Ser Tyr Thr Gln Ile Phe Ser Thr Val Met Arg  
 210 215 220  
 Ile Pro Ser Ala Asp Ser Arg Thr Lys Val Phe Ser Thr Cys Leu Pro  
 225 230 235 240  
 His Leu Phe Val Val Met Phe Phe Leu Ser Ala Ala Gly Phe Glu Phe  
 245 250 255  
 Leu Arg Pro Pro Ser Asp Ser Leu Ser Ala Met Asp Leu Ile Phe Ser  
 260 265 270  
 Ile Phe Tyr Thr Val Ile Pro Pro Thr Leu Asn Pro Leu Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Glu Ala Met Lys Ala Ala Leu Arg Lys Val Leu Ser Lys  
 290 295 300  
 Glu Glu Phe Ser Arg Arg Met Val Tyr Val Lys Ala Ile Phe Asn Leu  
 305 310 315 320

<210> 2524  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2524  
 Met Ile Val Glu Asn Ile Thr Thr Met Arg Gly Phe Leu Leu Met Gly  
 1 5 10 15  
 Phe Ser Asp Asn His Glu Leu Gln Ile Leu Gln Ala Leu Leu Phe Leu  
 20 25 30

Val	Thr	Tyr	Leu	Leu	Gly	Ser	Ala	Gly	Asn	Val	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Tyr	Val	Asp	Ile	Cys	Leu	Thr	Gln	Ser	Gly	Tyr	Ile	Ser	Tyr	Ala	Gln
				85					90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Thr	Gly	Phe	Ala	Trp	Gly	Glu	Val
			100					105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Leu
		115					120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Gly	Pro	Ser	Lys	Cys	Arg	Trp	Ala
	130					135					140				
Val	Thr	Ala	Val	Trp	Leu	Ser	Ser	Val	Ile	Pro	Gly	Thr	Leu	Tyr	Ile
145					150					155					160
Ala	Ser	Ile	Phe	Ser	Ile	Arg	Phe	Cys	Gly	Asp	Arg	Ile	Ile	His	Gln
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Leu	Lys	Phe	Ser	Cys	Ser	Asp	Asp
			180					185					190		
Tyr	Leu	Val	Thr	Val	Gly	Val	Ala	Asp	Phe	Leu	Ser	Ala	Val	Ala	Phe
	195						200					205			
Ala	Cys	Phe	Ile	Gly	Ile	Val	Asn	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
	210					215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Leu	Leu	Phe	Leu	Ser	Thr	Gly	Ile
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Pro	Thr	Ser	Asp	Ser	Pro	Thr	Ala	Leu	Gln	Phe
			260					265					270		
Leu	Val	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Thr	Ile	Lys	Ser	Val	Ile	Arg	Lys	Leu
	290					295					300				
Leu	Leu	Ser	Ser	Lys	Phe	Thr	Gly								
305					310										

<210> 2525

<211> 330

<212> PRT

<213> Mus musculus

<400> 2525

Met	Ile	Cys	Cys	Pro	Phe	Phe	Gln	Glu	Met	Ser	Ile	Asn	Cys	Ser	Leu
1				5					10					15	
Trp	Gln	Glu	Asn	Ser	Leu	Ser	Val	Lys	Arg	Phe	Ala	Phe	Ala	Lys	Phe
			20					25					30		
Ser	Glu	Val	Pro	Gly	Glu	Cys	Phe	Leu	Phe	Thr	Leu	Ile	Leu	Leu	
		35					40					45			
Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn	Ser	Leu	Ile	Ala	Leu	Ala	Ile
	50					55					60				
Cys	Thr	Ser	Ala	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
65					70					75					80
Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Cys	Ser	Val	Ile	Pro	Lys	Met
				85					90					95	
Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg	Gly	Ile	Ser	Arg	Glu	Gly	Cys
			100					105					110		
Ala	Thr	Gln	Met	Phe	Phe	Phe	Ile	Phe	Phe	Gly	Ile	Thr	Glu	Cys	Cys





Tyr	Leu	Val	Ile	Met	Gly	Val	Ala	Asp	Phe	Leu	Ser	Val	Ile	Gly	Phe
	195						200					205			
Ala	Cys	Phe	Val	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
	210						215				220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225						230				235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Gly	Ile
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Pro	Thr	Ser	Asp	Phe	Pro	Thr	Ala	Leu	Glu	Phe
			260					265				270			
Leu	Phe	Ser	Val	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Asp	Ala	Ile	Lys	Ser	Val	Val	Arg	Lys	Leu
	290					295					300				
Leu	Leu	Ser	Arg	Lys	Phe	Thr	Ser								
305					310										

<210> 2527

<211> 315

<212> PRT

<213> Mus musculus

<400> 2527

Met	Ile	Met	Glu	Asn	Ile	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5				10						15	
Phe	Ser	Asp	Asn	Arg	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Val	Thr	Tyr	Leu	Val	Gly	Ser	Ala	Gly	Asn	Cys	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Lys	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
		50				55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75				80	
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Glu	Gln
				85					90					95	
Cys	Met	Leu	Gln	Ile	Leu	Phe	Phe	Thr	Cys	Phe	Ala	Trp	Asp	Glu	Met
			100					105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Leu
			115				120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
					135						140				
Leu	Ala	Ala	Val	Trp	Leu	Ser	Gly	Gly	Val	Ser	Gly	Thr	Leu	Tyr	Thr
145					150					155				160	
Ala	Ser	Thr	Leu	Ser	Ile	Arg	Phe	Cys	Gly	Asp	Arg	Ile	Ile	His	Gln
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
Tyr	Leu	Val	Thr	Ile	Gly	Val	Ala	Asn	Ile	Leu	Ser	Ala	Val	Ala	Phe
		195					200					205			
Ala	Cys	Phe	Ile	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
		210					215				220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Tyr	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Ser	Thr
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Pro	Thr	Ala	Asp	Ser	Pro	Thr	Ala	Leu	Glu	Phe
			260					265				270			
Leu	Phe	Ser	Ile	Leu	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Ile	Asn	Pro	Val

	275		280		285
Ile	Tyr Ser Leu Arg Asn Glu Thr Ile Lys Arg Val Val Arg Lys Leu				
	290		295		300
Leu	Ser Ser Thr Lys Phe Thr Val Arg Ile Ile				
305		310		315	

<210> 2528  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2528

Met	Ile	Cys	Cys	Pro	Phe	Phe	Gln	Glu	Met	Ser	Val	Asn	Cys	Ser	Leu
1				5					10					15	
Trp	Gln	Glu	Asn	Lys	Leu	Ser	Val	Lys	His	Phe	Ala	Phe	Ala	Lys	Phe
			20					25					30		
Ser	Glu	Val	Pro	Glu	Glu	Cys	Phe	Leu	Leu	Phe	Thr	Leu	Ile	Leu	Leu
		35					40					45			
Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn	Ala	Leu	Ile	Thr	Leu	Ala	Ile
	50					55					60				
Cys	Thr	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
65					70					75					80
Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Cys	Ser	Val	Ile	Pro	Lys	Met
				85					90					95	
Leu	Gln	Asn	Leu	Val	Ser	Glu	Ile	Arg	Gly	Ile	Ser	Arg	Glu	Gly	Cys
			100					105					110		
Ala	Thr	Gln	Met	Phe	Phe	Phe	Ile	Phe	Phe	Gly	Ile	Thr	Glu	Cys	Cys
		115					120					125			
Leu	Leu	Ala	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Ser	Pro
	130					135					140				
Leu	His	Tyr	Ala	Thr	Arg	Met	Ser	Arg	Glu	Val	Cys	Ala	His	Leu	Ala
145					150					155					160
Leu	Val	Ser	Trp	Gly	Met	Gly	Cys	Ile	Val	Gly	Leu	Gly	Gln	Thr	Asn
				165					170					175	
Phe	Ile	Phe	Ser	Leu	Asn	Phe	Cys	Gly	Pro	Cys	Glu	Ile	Asp	His	Phe
			180					185					190		
Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala	Leu	Ala	Cys	Gly	Asp	Thr	Ser
		195					200					205			
Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val	Thr	Val	Val	Leu	Cys	Ile	Ser	Ser
	210					215					220				
Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser	Tyr	Val	Arg	Ile	Leu	Phe	Ala	Val
225					230					235					240
Leu	Val	Met	Pro	Ser	Pro	Glu	Gly	Arg	His	Lys	Ala	Leu	Ser	Thr	Cys
				245					250					255	
Ser	Ser	His	Leu	Leu	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Ala	Ser	Ile
			260					265					270		
Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	His	Ser	Pro	Gly	Ile	Asp	Lys	Leu
		275					280					285			
Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val	Thr	Ser	Met	Leu	Asn	Pro	Ile	Ile
	290					295					300				
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Leu	Arg	Arg	Thr	Leu
305					310					315					320
Ser	Leu	Lys	Lys	Pro	Leu	Ala	Ile	Asn	Arg						
				325					330						

<210> 2529  
 <211> 316

<212> PRT

<213> Mus musculus

<400> 2529

Met	Ala	Asn	Ser	Thr	Leu	Val	Thr	Asn	Ser	Thr	Leu	Val	Thr	Glu	Phe
1				5					10					15	
Met	Leu	Glu	Asp	Phe	Ala	Glu	Thr	Trp	Glu	Leu	Arg	Ile	Leu	Leu	Ser
			20					25					30		
Val	Leu	Phe	Leu	Leu	Val	Tyr	Met	Gly	Ser	Leu	Leu	Gly	Asn	Leu	Thr
		35					40					45			
Ile	Ile	Ile	Ala	Thr	Thr	Val	Asp	Gln	Thr	Leu	Asn	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Arg	Asn	Leu	Ser	Ile	Leu	Asp	Met	Cys	Tyr	Ile	Ser	Val
65				70					75						80
Thr	Val	Pro	Asn	Ala	Cys	Ile	Asn	Ser	Leu	Thr	Asp	His	Arg	Asn	Ile
			85					90						95	
Ser	Val	Ala	Gly	Cys	Val	Ala	Gln	Val	Phe	Leu	Val	Leu	Phe	Cys	Ala
			100					105					110		
Ala	Val	Glu	Ile	Gln	Phe	Leu	Thr	Ile	Met	Ala	Gln	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Met	Ile	Met	Asn	His	Gln	Tyr
	130					135					140				
Cys	Ile	Gln	Met	Thr	Leu	Ala	Ser	Leu	Leu	Thr	Ser	Leu	Ile	Leu	Ala
145					150				155						160
Ser	Val	His	Thr	Ser	Lys	Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Lys
				165					170					175	
Val	Ile	Pro	His	Phe	Phe	Cys	Asp	Ile	Pro	Ser	Leu	Leu	Arg	Leu	Ser
			180					185					190		
Cys	Ser	Asp	Thr	Phe	Asn	Asn	Lys	Leu	Leu	Leu	Leu	Leu	Thr	Ala	Ile
		195					200						205		
Gly	Leu	Ser	Gly	Ser	Cys	Phe	Thr	Phe	Ile	Ala	Ile	Ser	Tyr	Ala	Arg
	210					215					220				
Ile	Leu	Ser	Ala	Val	Leu	Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Val	Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Leu
				245					250					255	
Ser	Ser	Ala	Ala	Tyr	Val	Tyr	Leu	Arg	Pro	Pro	Val	Val	Thr	Leu	Glu
			260					265					270		
Val	Val	Gln	Glu	Met	Thr	Leu	Ser	Val	Phe	Tyr	Thr	Ile	Val	Pro	Pro
		275					280					285			
Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Gln	Ile	Lys	Glu
	290					295					300				
Ala	Val	Lys	Lys	Val	Val	Leu	Arg	Ile	Thr	Phe	Ile				
305					310					315					

<210> 2530

<211> 323

<212> PRT

<213> Mus musculus

<400> 2530

Met	Glu	Asp	Ser	Ser	Met	Ser	Asn	Asp	Thr	Arg	Ile	Thr	Gly	Phe	Ile
1				5					10					15	
Leu	Met	Gly	Phe	Ser	Ala	Ala	Pro	Glu	Leu	Gln	Thr	Val	Cys	Gly	Leu
			20					25					30		
Phe	Phe	Leu	Val	Met	Tyr	Val	Ala	Val	Ile	Met	Ser	Asn	Leu	Leu	Leu
		35					40					45			
Ile	Thr	Leu	Ile	Thr	Leu	Asp	Leu	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe

50		55		60											
Phe	Leu	Lys	Asn	Leu	Ser	Leu	Leu	Asp	Ile	Phe	Phe	Ile	Ser	Val	Pro
65					70					75					80
Ile	Pro	Asn	Phe	Phe	Ile	Asn	Ser	Ile	Thr	His	Asn	Asn	Ser	Ile	Ser
			85						90					95	
Ile	Leu	Gly	Cys	Ala	Leu	Gln	Val	Phe	Leu	Met	Thr	Ser	Phe	Ala	Ser
			100					105					110		
Gly	Asp	Val	Phe	Val	Leu	Thr	Ala	Met	Ser	Tyr	Asp	His	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Cys	Pro	Leu	His	Tyr	Glu	Thr	Ile	Met	Ser	Ser	Gly	Asn	Cys
	130					135					140				
Val	Leu	Met	Val	Gly	Val	Ser	Trp	Ala	Ile	Gly	Val	Leu	Phe	Gly	Ala
145					150					155					160
Leu	Tyr	Thr	Ala	Gly	Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Ile	Val
			165						170					175	
Ile	Pro	Gln	Phe	Phe	Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys
			180					185					190		
Ser	Asp	Ile	Leu	Val	Val	Ile	Tyr	Thr	Ser	Leu	Gly	Met	Gly	Val	Cys
	195						200					205			
Leu	Gly	Met	Ser	Cys	Phe	Ile	Cys	Val	Val	Ile	Ser	Tyr	Phe	Tyr	Ile
	210					215					220				
Phe	Ser	Thr	Val	Leu	Lys	Ile	Pro	Thr	Thr	Lys	Gly	Gln	Ser	Lys	Ala
225					230					235					240
Phe	Ala	Thr	Cys	Leu	Pro	His	Leu	Thr	Val	Phe	Ser	Val	Phe	Ile	Val
			245						250					255	
Thr	Ala	Cys	Phe	Val	Tyr	Leu	Lys	Pro	Pro	Ser	Val	Val	Pro	Ser	Ile
		260						265					270		
Ser	Asp	Arg	Leu	Phe	Ser	Val	Leu	His	Thr	Val	Leu	Pro	Pro	Ala	Leu
	275						280					285			
Asn	Pro	Val	Ile	Tyr	Ser	Leu	Arg	Asn	Ser	Asp	Val	Lys	Arg	Ala	Leu
	290					295					300				
Lys	Arg	Leu	Gln	Gln	Asn	Leu	Cys	Pro	Ser	Gly	Ser	Leu	His	Val	Thr
305				310						315					320
Ile	Gln	Ser													

<210> 2531

<211> 319

<212> PRT

<213> Mus musculus

<400> 2531

Met	Leu	Asn	Ala	Thr	Arg	Ile	Thr	Gly	Phe	Ile	Leu	Met	Gly	Phe	Ser
1				5					10					15	
Val	Ala	Pro	Glu	Leu	Gln	Thr	Val	Cys	Gly	Leu	Phe	Leu	Leu	Val	Met
		20						25					30		
Tyr	Leu	Ala	Val	Ile	Met	Ser	Asn	Leu	Leu	Ile	Thr	Leu	Ile	Thr	
	35						40				45				
Leu	Asp	Leu	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu
	50				55					60					
Ser	Leu	Leu	Asp	Val	Phe	Phe	Ile	Ser	Val	Pro	Ile	Pro	Asn	Phe	Phe
65					70				75					80	
Ile	Asn	Ser	Ile	Thr	His	Asn	Asn	Ser	Ile	Ser	Ile	Leu	Gly	Cys	Ala
			85						90				95		
Leu	Gln	Leu	Phe	Leu	Met	Thr	Ser	Phe	Gly	Ala	Gly	Asp	Val	Phe	Val
		100						105				110			
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu
	115						120					125			

His	Tyr	Glu	Thr	Ile	Met	Ser	Ser	Gly	Asn	Cys	Val	Leu	Met	Val	Gly
130						135				140					
Val	Ser	Trp	Ala	Thr	Gly	Ile	Leu	Phe	Gly	Ala	Leu	Tyr	Thr	Ala	Gly
145					150					155					160
Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Met	Val	Ile	Pro	Gln	Phe	Phe
				165					170					175	
Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys	Ser	Asp	Thr	Leu	Val
			180					185					190		
Val	Ile	Tyr	Ile	Ser	Leu	Gly	Ile	Gly	Phe	Cys	Leu	Gly	Met	Val	Cys
		195					200					205			
Ile	Ile	Cys	Val	Val	Leu	Ser	Tyr	Phe	Tyr	Ile	Phe	Ser	Thr	Val	Leu
		210				215					220				
Lys	Ile	Pro	Thr	Thr	Lys	Gly	Gln	Ser	Lys	Ala	Phe	Gly	Thr	Cys	Ile
225					230					235					240
Pro	His	Leu	Thr	Val	Phe	Ser	Val	Phe	Ile	Ala	Thr	Ala	Cys	Phe	Val
				245					250					255	
Asn	Leu	Lys	Pro	Pro	Ser	Arg	Ser	Ala	Ser	Ile	Ala	Asp	Ser	Leu	Phe
			260					265					270		
Ser	Val	Leu	Tyr	Thr	Val	Leu	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Thr	Asp	Val	Lys	Cys	Ala	Leu	Arg	Ser	Leu	Gln	Lys
		290				295					300				
Ile	Leu	Cys	Pro	Arg	Asp	Ser	Leu	His	Leu	Arg	Val	Gln	Ser	Ile	
305					310					315					

<210> 2532

<211> 310

<212> PRT

<213> Mus musculus

<400> 2532

Met	Gln	Ser	Gly	Asn	Gln	Thr	Ser	Val	Ser	His	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	His	His	Pro	Pro	Gln	Leu	Gly	Val	Pro	Leu	Phe	Leu	Ala	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Leu	Leu	Thr	Val	Ser	Gly	Asn	Gly	Leu	Ile	Ile	Leu	Thr
		35				40						45			
Val	Leu	Val	Asp	Ile	Arg	Leu	His	Arg	Pro	Met	Tyr	Trp	Phe	Leu	Cys
		50				55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Thr	Ile	Ser	Ser	Ala	Ile	Val	Pro	Lys
65					70					75					80
Met	Leu	Ser	Gly	Phe	Leu	Leu	Asp	Ser	Arg	Ile	Ile	Ser	Phe	Gly	Gly
			85					90					95		
Cys	Val	Ile	Gln	Leu	Phe	Ser	Phe	His	Phe	Leu	Gly	Cys	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Phe	Leu	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Ala	Thr	Ile	Met	Thr	Arg	Ser	Val	Cys	Asn	Tyr	Leu
		130				135						140			
Ala	Leu	Gly	Thr	Trp	Ile	Gly	Gly	Thr	Ile	His	Ser	Leu	Phe	Gln	Thr
145					150					155					160
Ser	Phe	Ile	Phe	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Arg	Val	Asp	Tyr
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Leu	Arg	Leu	Val	Cys	Ala	Asp	Thr
			180					185					190		
Thr	Ile	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile	Gly	Phe	Leu	Ala	Leu
		195					200					205			
Thr	Cys	Phe	Met	Leu	Ile	Leu	Thr	Ser	Tyr	Gly	Tyr	Ile	Val	Ala	Ala

210		215		220
Ile Leu Arg Ile Arg Ser	Ala Asp Gly Arg Arg	Asn Ala Phe Ser Thr		
225		230		240
Cys Ala Ala His Leu Thr	Val Val Ile Val Tyr Tyr	Val Pro Cys Thr		
		245		255
Phe Ile Tyr Leu Arg Pro	Gly Ser Gln Glu Pro Leu	Asp Gly Val Val		
		260		270
Ala Val Phe Tyr Thr Val	Ile Thr Pro Leu Leu Asn	Pro Ile Ile Tyr		
		275		285
Thr Leu Arg Asn Lys Gln	Met Lys Ala Ala Leu Arg	Arg Arg Leu Gly Gly		
		290		300
Leu Arg Glu Val His Pro				
305		310		

<210> 2533

<211> 313

<212> PRT

<213> Mus musculus

<400> 2533

Met Arg Asn His Thr Ser	Val Thr Glu Phe Ile Leu	Leu Gly Ile Pro		
1		5		10
Thr Val Lys Glu Gly Leu	Glu Ser Met Leu Phe Ala	Leu Phe Leu Val		
		20		25
Phe Tyr Val Phe Ala Leu	Leu Gly Asn Leu Leu Ile	Phe Leu Thr Ile		
		35		40
Leu Ala Ser Pro Asn Leu	His Thr Pro Met Tyr Phe	Phe Leu Gly Asn		
		50		55
Leu Ala Val Phe Asp Ile	Phe Phe Pro Ser Val Asn	Ser Pro Lys Met		
		65		70
Met Asp Tyr Leu Val Arg	Gln Gly Arg Thr Ile Ser	Tyr Gln Gly Cys		
		85		90
Val Ser Gln Val Phe Phe	Tyr His Thr Leu Gly Gly	Thr Glu Cys Phe		
		100		105
Leu Tyr Thr Val Met Ala	Tyr Asp Arg Phe Val Ala	Ile Cys His Pro		
		115		120
Met Arg Tyr Thr Val Ile	Met Asn His Arg Val Cys	Thr Cys Leu Thr		
		130		135
Leu Gly Thr Trp Val Gly	Gly Phe Val His Gly Ser	Ile Leu Thr Phe		
		145		150
Leu Ile Phe Lys Leu Pro	Tyr Cys Gly Pro Asn Lys	Val Asn Ser Phe		
		165		170
Phe Cys Asp Ile Pro Val	Val Leu Ser Leu Ala Cys	Ala Asp Thr Ser		
		180		185
Leu Ala Arg Thr Val Ser	Phe Thr Asn Val Gly Val	Val Ala Leu Thr		
		195		200
Cys Phe Leu Leu Ile Leu	Thr Ser Tyr Thr Arg Ile	Val Ile Ser Ile		
		210		215
Leu Lys Ile Arg Ser Ser	Glu Gly Arg Arg Arg Ala	Phe Ser Thr Cys		
		225		230
Ser Ala His Leu Thr Ser	Ile Ile Leu Val Tyr Gly	Pro Val Ile Leu		
		245		250
Val Tyr Leu Arg Pro Ala	Ser Ser Pro Trp Leu Asp	Ser Val Val Gln		
		260		265
Val Phe Asn Asn Val Ile	Thr Pro Ser Leu Asn Pro	Leu Ile Tyr Thr		
		275		280
Leu Arg Asn Lys Asp Val	Lys Leu Ala Leu Lys Lys	Val Val Ser Gln		
		290		295
				300

Gly Ala Gln Pro Leu Gly Tyr Lys Glu  
 305 310

<210> 2534  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2534  
 Met Glu Val Cys Asn Ser Thr Leu Arg Ser Gly Phe Ile Leu Met Gly  
 1 5 10 15  
 Ile Leu Asp Asp Asn Asp Phe Pro Glu Leu Leu Cys Ala Thr Ile Thr  
 20 25 30  
 Ala Leu Tyr Leu Leu Ala Leu Thr Ser Asn Gly Leu Leu Leu Val  
 35 40 45  
 Ile Thr Met Asp Ala Arg Leu His Val Pro Met Tyr Leu Leu Leu Trp  
 50 55 60  
 Gln Leu Ser Leu Met Asp Leu Leu Leu Thr Ser Val Ile Thr Pro Lys  
 65 70 75 80  
 Ala Ile Leu Asp Tyr Leu Leu Lys Asp Asn Thr Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Ala Leu Gln Met Phe Leu Ala Leu Thr Leu Gly Thr Ala Glu Asp  
 100 105 110  
 Leu Leu Leu Ser Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Thr Ile Leu Met Ser Gln Lys Val Cys Cys Leu Met  
 130 135 140  
 Ile Ala Thr Ser Trp Ser Leu Ala Ser Leu Ser Ala Leu Gly Tyr Ser  
 145 150 155 160  
 Met Tyr Thr Met Gln Tyr Pro Phe Cys Lys Ser Arg Gln Ile Arg His  
 165 170 175  
 Leu Phe Cys Glu Ile Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr  
 180 185 190  
 Ser Thr Tyr Glu Leu Met Val Tyr Leu Met Gly Val Thr Leu Leu Phe  
 195 200 205  
 Pro Ala Leu Ala Ala Ile Leu Ala Ser Tyr Ser Leu Ile Leu Phe Thr  
 210 215 220  
 Val Leu His Met Pro Ser Asn Glu Gly Arg Arg Lys Ala Leu Val Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Thr Val Val Gly Met Trp Phe Gly Gly Ala Ile  
 245 250 255  
 Val Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn  
 260 265 270  
 Ile Ser Ser Val Phe Tyr Thr Ile Phe Thr Pro Ala Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Gly Ala Leu Arg Arg Val  
 290 295 300  
 Leu Gly Lys Ser Leu Val Ser Thr Val Tyr  
 305 310

<210> 2535  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2535  
 Met Tyr Thr Trp Asn His Thr Asn Met Pro Asp Phe Ile Leu Met Gly

1				5					10					15			
Leu	Thr	Asp	Ser	Lys	Glu	Ile	Gln	Leu	Ile	Leu	Ser	Val	Leu	Phe	Leu		
			20					25					30				
Leu	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Ile	Gly	Met	Ile	Leu	Ile		
		35					40					45					
Ile	Tyr	Ile	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr		
	50					55					60						
His	Leu	Ser	Val	Val	Asp	Leu	Ser	Tyr	Ser	Thr	Ala	Ile	Thr	Pro	Lys		
65					70					75					80		
Thr	Leu	Glu	Asn	Met	Leu	Thr	Thr	Asn	Lys	Ser	Ile	Ser	Tyr	Thr	Asn		
				85					90						95		
Cys	Phe	Ala	Gln	Leu	Tyr	Ile	Phe	Ile	Leu	Leu	Ala	Ala	Thr	Glu	Cys		
			100					105					110				
Phe	Leu	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn		
		115						120				125					
Pro	Leu	His	Tyr	Pro	Val	Ile	Met	Ser	Pro	Arg	Cys	Cys	Leu	Ala	Leu		
	130					135					140						
Leu	Thr	Gly	Ser	Tyr	Val	Ile	Gly	Ala	Val	Asp	Ser	Thr	Leu	Thr	Val		
145					150					155					160		
Phe	Ser	Met	Ile	Thr	Leu	His	Phe	Cys	Lys	Ser	Asn	Val	Ile	Arg	His		
				165					170						175		
Phe	Tyr	Cys	Asp	Thr	Ser	Pro	Leu	Leu	Ser	Leu	Ser	Cys	Ser	Asp	Thr		
			180					185					190				
His	Val	Val	Glu	Ile	Ile	Ile	Phe	Ile	Phe	Ala	Gly	Ser	Thr	Ile	Leu		
		195					200					205					
Gly	Ser	Leu	Ile	Thr	Ile	Ser	Gly	Ser	Tyr	Val	Ser	Ile	Leu	Ser	Thr		
	210					215					220						
Ile	Leu	Asn	Ile	Asn	Ser	Thr	Ser	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		
Cys	Ala	Ser	His	Leu	Leu	Gly	Val	Thr	Val	Phe	Tyr	Ser	Thr	Leu	Ile		
				245					250						255		
Phe	Thr	Tyr	Leu	Lys	Pro	Thr	Lys	Ser	Tyr	Ser	Leu	Gly	Lys	Glu	Glu		
			260					265					270				
Val	Ala	Ser	Val	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu		
		275					280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Val	Val	Arg	Leu		
	290				295						300						
Val	Lys	Thr	Arg	Gln	Gly	Ser	Arg	Lys	Leu	Ile							
305					310					315							

<210> 2536

<211> 317

<212> PRT

<213> Mus musculus

<400> 2536

Met	Lys	Ala	Tyr	Ser	Glu	Ala	Lys	His	Asn	Gly	Thr	Glu	Ala	Thr	Glu		
1				5					10					15			
Phe	Ile	Leu	Leu	Gly	Leu	Ser	Thr	Arg	Pro	Glu	Leu	Gln	Pro	Ile	Leu		
			20					25					30				
Phe	Leu	Val	Phe	Leu	Thr	Ile	Tyr	Leu	Ile	Thr	Leu	Thr	Gly	Asn	Phe		
		35					40					45					
Gly	Met	Ile	Leu	Leu	Ile	Arg	Phe	Thr	Pro	Gln	Leu	Gln	Thr	Pro	Met		
	50					55					60						
Tyr	Phe	Phe	Leu	Thr	His	Leu	Ala	Cys	Val	Asp	Ile	Phe	Tyr	Ser	Thr		
65					70					75					80		
Asn	Val	Ser	Pro	Gln	Met	Leu	Val	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr		
				85					90					95			



Ile	Ser	Tyr	Ile	Gly	Cys	Leu	Thr	Gln	Cys	Phe	Val	Phe	Val	Thr	Leu
			100					105					110		
Leu	Leu	Thr	Glu	Tyr	Tyr	Met	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Met	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Ser	Thr	Lys	Met	Ser	Arg	Pro
	130					135					140				
Val	Cys	Ile	Cys	Leu	Val	Thr	Phe	Pro	Tyr	Phe	Trp	Gly	Ser	Met	Val
145					150					155					160
Gly	Thr	Met	Gln	Val	Ile	Leu	Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro
			165						170					175	
Asn	Thr	Ile	Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Leu	Met	Leu
			180					185						190	
Thr	Cys	Ser	Asp	Thr	Tyr	Ile	Lys	Gln	Thr	Ala	Leu	Phe	Val	Ser	Ala
		195					200					205			
Gly	Ile	Asn	Leu	Thr	Gly	Ser	Leu	Leu	Ile	Ile	Leu	Ile	Ser	Tyr	Ile
	210					215					220				
Phe	Ile	Phe	Ile	Thr	Ile	Met	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Gln	Arg
225					230					235					240
Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Thr	Met	Phe
				245					250					255	
Tyr	Gly	Ser	Leu	Phe	Cys	Met	Tyr	Leu	Arg	Pro	Ala	Asn	Glu	Arg	Ser
			260					265					270		
Val	Glu	Gln	Gly	Lys	Ile	Ile	Ala	Val	Phe	Cys	Ile	Phe	Val	Ser	Pro
		275					280					285			
Met	Val	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gln
	290					295					300				
Ala	Leu	Arg	Arg	Val	Phe	Ile	Arg	Asn	Leu	Cys	Lys	Val			
305					310					315					

<210> 2537

<211> 314

<212> PRT

<213> Mus musculus

<400> 2537

Met	Glu	Glu	Lys	Asn	Gln	Thr	Val	Met	Pro	Glu	Phe	Leu	Phe	Arg	Gly
1				5				10						15	
Ile	Thr	Asp	Asn	Leu	His	Gln	Lys	Ile	Val	Ile	Phe	Ile	Ile	Phe	Phe
			20					25					30		
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Gly	Asn	Val	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Phe	Val	Asp	Val	Ser	Ser	Ser	Ser	Ser	Ile	Ala	Pro	Lys
65					70					75				80	
Met	Leu	Cys	Asp	Ile	Phe	Ala	Arg	Asn	Lys	Ala	Ile	Ser	Phe	Val	Gly
				85					90					95	
Cys	Ala	Thr	Gln	Met	Trp	Phe	Phe	Gly	Leu	Phe	Val	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Met	Ser	Pro	His	Leu	Cys	Met	Leu	Leu
	130					135					140				
Val	Val	Gly	Ile	Tyr	Phe	Ile	Ala	Leu	Ile	Ser	Thr	Met	Ile	His	Thr
145					150					155					160
Thr	Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Tyr	Ile	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Thr	Asp	Thr

Gln	Met	Ile	Lys	Leu	Val	Phe	Phe	Val	Leu	Ala	Gly	Thr	Val	Gly	Met
		180						185					190		
		195						200					205		
Phe	Thr	Gly	Leu	Ile	Ile	Leu	Gly	Ser	Tyr	Val	Cys	Ile	Leu	Lys	Ala
	210					215					220				
Ile	Leu	Lys	Ile	Gln	Thr	Ala	Asn	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Val	Thr	Val	Ala	Ile	Leu	Tyr	Gly	Thr	Leu	Phe
			245						250					255	
Phe	Ile	Tyr	Val	Arg	Pro	Asn	Ala	Ser	Ser	Ser	Leu	Asn	Ile	Asn	Lys
			260					265					270		
Val	Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Asn	Ala	Phe	Arg	Arg	Thr
	290				295						300				
Leu	Lys	Lys	Lys	His	Phe	Leu	Ile	Gly	Val						
305					310										

<210> 2538

<211> 315

<212> PRT

<213> Mus musculus

<400> 2538

Met	Glu	Ile	Glu	Asn	His	Thr	Leu	Ile	Thr	Lys	Phe	Leu	Ile	Leu	Gly
1				5					10					15	
Leu	Ser	Asp	Asp	Pro	Glu	Leu	Gln	Pro	Ile	Leu	Phe	Gly	Leu	Phe	Leu
		20						25					30		
Ser	Met	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Ser	Ser	Asp	Ser	His	Leu	His	Lys	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Phe	Ile	Ser	Thr	Thr	Ile	Pro	Lys
65				70					75					80	
Met	Leu	Val	Asn	Met	Gln	Ser	Gln	Ile	Lys	Asp	Ile	Ser	Tyr	Ile	Glu
			85						90					95	
Cys	Leu	Thr	Gln	Val	Phe	Phe	Phe	Asn	Ile	Phe	Ala	Gly	Met	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Thr	Val	Ile	Met	Asn	Pro	Arg	Leu	Cys	Ala	Leu	Leu
	130					135					140				
Ile	Leu	Met	Phe	Trp	Ile	Ile	Met	Phe	Trp	Val	Ser	Leu	Ile	His	Val
145				150					155					160	
Leu	Leu	Met	Asn	Glu	Leu	Asn	Phe	Ser	Arg	Gly	Thr	Glu	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Glu	Leu	Ala	Gln	Val	Leu	Lys	Val	Ser	Asn	Ser	Asp	Asn
		180						185					190		
His	Val	Asn	Asn	Val	Phe	Met	Tyr	Val	Val	Thr	Ser	Leu	Leu	Gly	Val
		195					200					205			
Ile	Pro	Met	Thr	Gly	Ile	Leu	Met	Ser	Tyr	Ser	Gln	Ile	Phe	Ser	Ser
	210					215					220				
Leu	Phe	Arg	Met	Ser	Ser	Thr	Val	Ser	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Cys	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Gly	Phe
			245						250					255	
Gly	Val	Tyr	Phe	Ser	Ser	Ser	Val	Val	His	Ser	Thr	Gln	Arg	Arg	Lys
			260					265					270		

Val	Ala	Ser	Leu	Met	Tyr	Thr	Val	Ile	Ser	Pro	Met	Leu	Asn	Pro	Phe
		275						280				285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Gly	Lys	Leu
	290					295					300				
Phe	Asn	Arg	Val	Ala	Ser	Ser	Pro	Ser	Cys	Ile					
305					310					315					

<210> 2539  
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 <212> PRT  
 <213> Mus musculus

<400> 2539

Met	Lys	Asn	Gln	Ser	Val	Glu	Ile	Ile	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Ile	Phe	Leu	Phe	Leu	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Leu	Met	Gly	Asn	Leu	Val	Ile	Ile	Leu	Leu	Thr	Leu
		35					40					45			
Leu	Asp	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Met	Ser	Ile	Leu	Thr	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Phe	Phe	Phe	Phe	Ser	Leu	Leu	Leu	Val	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
	115					120						125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Asn	Arg	Met	Cys	His	Leu	Leu	Val	Leu
	130					135					140				
Ser	Cys	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Leu	Pro	Pro	Leu	Val	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Ile	Asp	His	Phe	Leu
			165						170					175	
Cys	Asp	Thr	Ser	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	His	Phe
		180						185				190			
Met	Glu	Leu	Met	Ala	Phe	Val	Ile	Ala	Leu	Met	Thr	Leu	Val	Ile	Thr
	195						200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245						250					255	
Tyr	Met	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Ala	Leu	Asn	Lys	Gly	Val
			260					265					270		
Ser	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Asp	Ala	Phe	Lys	Gln	Val	Leu	His
	290					295					300				
Arg	Leu	Tyr	Ser	His	Asn	Ser	Glu	Leu	Arg	Phe	Arg	Pro	Lys		
305					310					315					

<210> 2540  
 <211> 312  
 <212> PRT

<213> Mus musculus

<400> 2540

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Met Arg Asn His Thr Ser Ile Thr Thr Phe Ile Leu Leu Gly Leu Thr
 1      5      10      15
Asp Asp Pro Gln Leu Gln Val Leu Leu Phe Ile Phe Leu Phe Ile Thr
      20      25      30
Tyr Leu Leu Ser Val Thr Gly Asn Leu Thr Ile Ile Thr Leu Thr Thr
      35      40      45
Val Asp Pro Tyr Leu Lys Thr Pro Met Tyr Phe Phe Leu Gln Asn Phe
      50      55      60
Ser Phe Leu Glu Ile Ser Phe Thr Ser Ala Cys Val Pro Arg Phe Leu
      65      70      75      80
Tyr Ser Ile Ser Thr Gly Asp Arg Thr Ile Thr Tyr Asn Ala Cys Ala
      85      90      95
Thr Gln Leu Phe Phe Thr Asp Leu Phe Gly Val Thr Glu Phe Phe Leu
      100      105      110
Leu Ala Ile Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
      115      120      125
His Tyr Met Thr Ile Met Asn Asn Lys Val Cys Arg Ile Met Val Ile
      130      135      140
Ser Cys Trp Met Ala Ala Phe Met Ile Ile Leu Pro Pro Leu Ser Leu
      145      150      155      160
Gly Phe His Leu Glu Phe Cys Asp Ser Asn Ile Ile Asp His Phe Gly
      165      170      175
Cys Asp Ala Asn Pro Ile Leu Lys Ile Ser Cys Ser Asp Thr Trp Leu
      180      185      190
Ile Glu Gln Met Val Ile Gly Ser Ala Val Leu Thr Phe Ile Ile Thr
      195      200      205
Leu Leu Cys Val Val Phe Ser Tyr Met Tyr Ile Ile Arg Thr Val Leu
      210      215      220
Lys Phe Pro Ser Ala Gln Lys Arg Lys Ala Phe Ser Thr Cys Ser
      225      230      235      240
Ser His Met Ile Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Ile
      245      250      255
Tyr Val Lys Pro Ser Ala Lys Glu Ala Val Thr Ile Asn Lys Gly Val
      260      265      270
Ser Val Leu Ile Ser Ser Ile Ser Pro Met Leu Asn Pro Phe Ile Tyr
      275      280      285
Thr Leu Arg Asn Lys Gln Val Lys Gln Ala Ser Gln Asp Leu Ile Lys
      290      295      300
Lys Ile Ala Phe Leu Leu Lys Lys
305      310
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<210> 2541

<211> 313

<212> PRT

<213> Mus musculus

<400> 2541

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Met Lys Asn Gln Ser Met Glu Ile Leu Ile Leu Leu Gly Leu Thr Asp
 1      5      10      15
Asp Pro Gln Leu Gln Ile Val Val Phe Leu Phe Leu Phe Leu Asn Tyr
      20      25      30
Val Met Ser Leu Val Gly Asn Leu Ile Ile Val Leu Leu Thr Leu Leu
      35      40      45
Asp Pro Arg Leu Lys Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe Ser
      50      55      60
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Phe 65	Leu	Glu	Ile	Met	Phe 70	Thr	Thr	Val	Cys	Ile 75	Pro	Arg	Phe	Leu	Thr 80
Thr	Ile	Val	Thr	Gly 85	Asp	Lys	Thr	Ile	Thr 90	Tyr	Asn	Asn	Cys	Ala 95	Ala
Gln	Leu	Phe	Phe 100	Ile	Leu	Leu	Leu	Gly 105	Val	Thr	Glu	Phe 110	Tyr	Leu	Leu
Ala	Ala	Met 115	Ser	Tyr	Asp	Arg	Tyr 120	Val	Ala	Ile	Cys	Arg 125	Pro	Leu	His
Tyr	Pro 130	Ile	Ile	Met	Asn 135	Ser	Lys	Val	Cys	His	Gln 140	Leu	Val	Leu	Ser
Ser 145	Trp	Val	Thr	Gly	Phe 150	Leu	Ile	Ile	Phe	Pro 155	Pro	Leu	Ala	Met	Gly 160
Leu	Lys	Leu	Asp	Phe 165	Cys	Asp	Ser	Arg	Ile 170	Ile	Asp	His	Phe	Met	Cys 175
Glu	Thr	Ser	Pro 180	Ile	Leu	Gln	Ile	Ser 185	Cys	Thr	Asp	Thr 190	His	Val	Leu
Glu	Met	Met 195	Ser	Phe	Val	Leu	Ala 200	Val	Val	Thr	Leu	Val 205	Val	Thr	Leu
Val	Leu 210	Val	Ser	Leu	Ser	Tyr 215	Ser	Phe	Ile	Ile	Lys 220	Thr	Ile	Met	Ser
Phe 225	Pro	Ser	Ala	Gln	Gln 230	Arg	Thr	Lys	Ala	Phe 235	Ser	Thr	Cys	Thr	Ser
His	Met	Phe	Val	Val 245	Ser	Ile	Thr	Tyr	Gly 250	Ser	Cys	Ile	Phe	Met	Tyr 255
Ile	Lys	Pro	Ser	Ala 260	Arg	Glu	Arg	Val 265	Ser	Val	Ser	Lys	Gly 270	Val	Ala
Leu	Leu	Tyr 275	Thr	Ser	Ile	Ala 280	Pro	Leu	Leu	Asn	Pro	Phe 285	Ile	Tyr	Thr
Leu	Arg 290	Asn	Gln	Gln	Val	Lys 295	Glu	Val	Phe	Trp	Asp 300	Val	Leu	Gln	Lys
Thr 305	Leu	Gly	Phe	Ser	Lys 310	His	Lys	Phe							

<210> 2542

<211> 313

<212> PRT

<213> Mus musculus

<400> 2542

Met 1	Glu	Lys	Glu	Asn 5	Gln	Thr	Ser	Val	Ser 10	Glu	Phe	Leu	Leu	Leu	Gly 15
Phe	Ser	Ser	Trp 20	Pro	Gly	His	Gln	Gly 25	Leu	Leu	Phe	Ala 30	Leu	Phe	Leu
Cys	Leu	Tyr 35	Leu	Thr	Gly	Leu	Phe 40	Gly	Asn	Leu	Leu	Ile 45	Leu	Leu	Ala
Ile	Gly 50	Ser	Asn	Asn	His 55	Leu	His	Thr	Pro	Met 60	Tyr	Phe	Phe	Leu	Ala
Asn 65	Leu	Ser	Leu	Val	Asp 70	Leu	Cys	Leu	Pro	Ser 75	Ala	Thr	Val	Pro	Lys 80
Met	Leu	Leu	Asn 85	Ile	Gln	Thr	Lys	Ser 90	Gln	Ser	Ile	Ser	Tyr	Pro	Gly 95
Cys	Leu	Ala 100	Gln	Met	Tyr	Phe	Cys 105	Met	Met	Phe	Ala	Asn 110	Met	Asp	Asn
Phe	Leu	Leu 115	Thr	Val	Met	Ala 120	Tyr	Asp	Arg	Phe	Val	Ala 125	Ile	Cys	His
Pro	Leu 130	His	Tyr	Thr	Thr	Ile 135	Met	Thr	Pro	Cys 140	Leu	Cys	Thr	Ser	Leu
Val	Ala	Phe	Ser	Trp	Val	Ile	Ala	Thr	Phe	Asn	Pro	Leu	Leu	His	Thr

145					150					155					160
Leu	Met	Met	Ala	Arg	Leu	His	Phe	Cys	Ser	Glu	Asn	Ile	Ile	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Asn	Ser	Leu	Leu	Pro	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
Ser	Leu	Asn	Gln	Leu	Met	Val	Leu	Ser	Val	Val	Gly	Leu	Ile	Phe	Val
		195					200					205			
Val	Pro	Ser	Val	Cys	Ile	Leu	Ala	Ser	Tyr	Gly	Arg	Ile	Val	Ser	Ala
	210					215					220				
Val	Met	Lys	Ile	Thr	Ser	Met	Glu	Gly	Lys	Leu	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ala	Leu	Val	Ile	Leu	Phe	Tyr	Gly	Ala	Ile	Ala
				245					250					255	
Gly	Ile	Tyr	Met	Ser	Pro	Ser	Ser	Asn	His	Ser	Thr	Glu	Lys	Asp	Ser
			260					265				270			
Ala	Ala	Ser	Val	Ile	Phe	Met	Val	Val	Ala	Pro	Val	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Leu	Lys	Gly	Thr	Leu	Lys	Lys	Thr
	290				295						300				
Leu	Gly	Gln	Ser	Lys	Ile	Cys	Ser	Lys							
305					310										

<210> 2543

<211> 280

<212> PRT

<213> Mus musculus

<400> 2543

Leu	Leu	Thr	Leu	Met	Gly	Asn	Leu	Gly	Ile	Leu	Val	Val	Ile	Lys	Val
1				5					10					15	
Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Asn	His	Leu	Ser
			20					25					30		
Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Lys	Leu	Leu	Gln
		35					40					45			
Ile	Leu	Ile	Met	Glu	Asp	Gly	Thr	Ile	Ser	Phe	Ile	Gly	Cys	Met	Ile
	50					55					60				
Gln	Phe	Phe	Phe	Ile	Cys	Thr	Phe	Val	Ile	Thr	Glu	Ile	Phe	Met	Leu
65					70					75					80
Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val	Cys	Asn	Pro	Leu	Tyr
				85					90					95	
Tyr	Thr	Leu	Ile	Val	Met	Pro	Ile	Gln	Phe	Cys	Ala	Leu	Leu	Val	Ala
			100					105					110		
Gly	Thr	Tyr	Met	Ile	Ser	Gly	Leu	Cys	Thr	Leu	Ile	Ile	Leu	Tyr	Thr
	115						120					125			
Leu	Leu	Gln	Leu	Cys	Tyr	Phe	Glu	His	Gly	Ile	Ile	Asn	His	Phe	Gly
	130					135					140				
Cys	Glu	Tyr	Ser	Ala	Val	Ile	Ser	Val	Ser	Cys	Ser	Asp	Ser	Ser	Phe
145					150					155					160
Ser	Gln	Leu	Ile	Cys	Leu	Val	Met	Ser	Ile	Ala	Ser	Glu	Phe	Ser	Ser
				165					170					175	
Val	Leu	Ile	Thr	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val	Val	Thr	Ile	Ile
			180					185					190		
Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Thr
	195						200					205			
Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Ile	Leu	Leu	Leu	Leu
	210					215					220				
Tyr	Cys	Ile	Pro	Asn	Ser	Asn	Ser	Ser	Arg	Leu	Phe	Val	Lys	Val	Ala
225					230					235					240

Thr	Ala	Leu	Tyr	Thr	Ile	Met	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
				245					250					255	
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg	Arg	Leu	Ile	Ser
			260					265					270		
Ser	Lys	Leu	His	Ser	His	Leu	Thr								
		275					280								

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 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2544

Leu	Tyr	Ser	Ile	Gln	Glu	Asn	Gln	Ser	Ser	Thr	Val	Thr	Phe	Ile	Leu
1				5					10					15	
Val	Gly	Phe	Ser	Glu	Tyr	Pro	Asp	Ile	Gln	Leu	Pro	Leu	Phe	Leu	Leu
			20					25					30		
Phe	Leu	Thr	Ile	Tyr	Thr	Val	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile
		35					40					45			
Ala	Ile	Ile	Arg	Leu	Ser	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Val	Thr
65					70				75						80
Pro	Lys	Leu	Leu	Glu	Asn	Leu	Ile	Val	Glu	Asp	Arg	Arg	Ile	Ser	Phe
				85					90					95	
Thr	Gly	Cys	Val	Met	Gln	Phe	Phe	Phe	Val	Cys	Ile	Phe	Val	Val	Thr
			100					105					110		
Glu	Thr	Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Lys	Leu	Cys	Trp
	130					135					140				
Ser	Leu	Val	Ala	Gly	Ser	Tyr	Ser	Trp	Gly	Ile	Ile	Cys	Ser	Phe	Val
145					150					155					160
Phe	Ile	His	Phe	Met	Leu	Thr	Leu	Val	Phe	Cys	Gly	Thr	Lys	Phe	Ile
			165						170					175	
Asn	Asn	Phe	Val	Cys	Glu	His	Asp	Ala	Ile	Val	Ala	Val	Ser	Cys	Ser
		180						185					190		
Asp	Pro	Phe	Ile	Ser	Gln	Lys	Val	Ile	Phe	Ile	Phe	Ala	Thr	Phe	Asn
		195					200					205			
Glu	Leu	Ser	Ser	Leu	Met	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile	Val
	210					215					220				
Ile	Thr	Val	Met	Lys	Met	Pro	Thr	Thr	Gly	Gly	Arg	Tyr	Lys	Val	Phe
225					230					235					240
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Thr	Ile	Thr	Ile	Phe	His	Ser	Ile
			245						250					255	
Ile	Ile	Cys	Leu	Tyr	Cys	Val	Pro	Thr	Thr	Lys	Ser	Ser	Trp	Leu	Leu
			260					265					270		
Val	Met	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Val	Lys
	290					295					300				
Lys	Leu	Met	Cys	Ser	Ser	Leu	Ser	Ser							
305					310										

<210> 2545  
 <211> 312  
 <212> PRT

<213> Mus musculus

<400> 2545

Gln	Leu	Arg	Asp	Arg	Gly	Asn	Gln	Thr	Asn	Ser	Val	Ile	Phe	Ile	Leu
1				5					10					15	
Leu	Gly	Phe	Ser	Glu	Tyr	Pro	Asp	Leu	Gln	Val	Pro	Leu	Phe	Phe	Val
			20					25					30		
Phe	Leu	Ile	Ile	Tyr	Thr	Ile	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile
		35					40					45			
Gly	Ile	Ile	Arg	Ile	Asn	Thr	Lys	Leu	Arg	Ser	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Leu	Leu	Glu	Asn	Leu	Ile	Ile	Glu	Asp	Arg	Thr	Ile	Ser
				85					90					95	
Phe	Ser	Gly	Cys	Ile	Ile	Gln	Phe	Phe	Phe	Ala	Cys	Thr	Phe	Val	Val
			100					105					110		
Thr	Glu	Thr	Tyr	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Val	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Lys	Leu	Cys
	130					135					140				
Ser	Ile	Leu	Val	Gly	Ala	Ser	Tyr	Ser	Trp	Gly	Leu	Ile	Cys	Ser	Leu
145					150					155					160
Thr	Leu	Thr	Tyr	Phe	Leu	Leu	Arg	Leu	Ser	Phe	Gln	Gly	Ile	Asn	Ile
				165					170					175	
Ile	Asn	Asn	Phe	Val	Cys	Glu	His	Ala	Ala	Ile	Val	Ala	Val	Ser	Cys
			180					185					190		
Ser	Asp	Pro	Tyr	Ile	Ser	Gln	Glu	Ile	Ile	Phe	Val	Ser	Ala	Ser	Phe
		195					200					205			
Asn	Glu	Ile	Ser	Ser	Leu	Ile	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile
	210					215						220			
Phe	Ile	Thr	Val	Met	Lys	Met	Ser	Ser	Ile	Gly	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Ile	Ile	Phe	His	Gly
				245					250					255	
Thr	Ile	Leu	Phe	Leu	Tyr	Cys	Val	Pro	Asn	Thr	Lys	Ser	Ser	Trp	Leu
		260						265					270		
Met	Val	Lys	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Phe	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ser	Val
	290					295					300				
Arg	Lys	Leu	Val	Thr	Lys	Ser	Leu								
305					310										

<210> 2546

<211> 312

<212> PRT

<213> Mus musculus

<400> 2546

Met	Glu	Pro	Gly	Asn	Gln	Thr	Gly	Ala	Tyr	Tyr	Phe	Tyr	Leu	Thr	Glu
1				5					10					15	
Leu	Thr	Ser	Asp	Pro	Thr	Met	Glu	Leu	Leu	Ile	Phe	Ser	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Val	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Ala
		35					40					45			
Val	Ser	Ser	Asp	Ser	His	Leu	Gln	Thr	Pro	Met	Tyr	His	Phe	Leu	Ser
	50					55					60				



Lys	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Leu	Ser	Thr	Thr	Thr	Ile	Pro	Asn
65					70					75				80	
Met	Leu	Lys	Asn	Ile	His	Thr	Gln	Asp	Gln	Ser	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Leu	Ile	Gln	Ala	Cys	Phe	Val	Leu	Asn	Phe	Ala	Leu	Val	Glu	Ser
			100						105					110	
Cys	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Thr	Val	Ile	Met	Asn	Pro	His	Phe	Cys	Asp	Leu	Leu
	130					135					140				
Ile	Leu	Leu	Ser	Leu	Ile	Ile	Ser	Ile	Val	Asn	Ser	Leu	Leu	Gln	Cys
145					150					155				160	
Leu	Met	Ile	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Asn	Glu	Leu	Pro	Leu
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Ala	Gln	Val	Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185						190	
Leu	Ile	Asn	Tyr	Ile	Leu	Ile	Tyr	Leu	Ala	Thr	Phe	Ile	Phe	Gly	Gly
		195					200					205			
Ile	Pro	Ile	Phe	Gly	Ile	Ile	Phe	Ser	Tyr	Thr	Arg	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Ile	Ser	Ser	Leu	Arg	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Gly	Val
				245					250					255	
Gly	Val	Tyr	Ile	Ser	Ser	Ser	Ile	Ala	Val	Phe	Pro	Gln	Thr	Thr	Thr
			260					265					270		
Val	Ser	Tyr	Ile	Met	Tyr	Thr	Val	Leu	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Ala	Leu	Arg	Lys	Leu
	290				295						300				
Ile	Ala	Lys	Glu	Ser	Arg	Leu	Pro								
305					310										

<210> 2547

<211> 309

<212> PRT

<213> Mus musculus

<400> 2547

Val	Leu	Leu	Asn	His	Thr	Phe	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val
1				5					10					15	
Thr	Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Met	Val	Leu	Ala
			20					25					30		
Met	Tyr	Phe	Ile	Asn	Val	Phe	Gly	Asn	Gly	Ala	Ile	Met	Met	Ile	Val
		35					40					45			
Ile	Leu	Asp	Ser	Arg	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn
	50					55				60					
Leu	Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Val	Pro	Lys	Met
65				70					75					80	
Leu	Glu	Asn	Phe	Phe	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys
				85					90					95	
Ile	Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Cys	Thr	Asp	Ala	Leu
			100					105					110		
Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Pro	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Ile	Gln	Val	Ala
	130					135					140				
Ala	Thr	Ile	Trp	Ala	Ile	Pro	Phe	Leu	His	Ala	Leu	Val	His	Ser	Ile

145					150					155					160
Met	Thr	Ser	Gln	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Arg	Ile	His	His	Phe
				165					170					175	
Phe	Cys	Asp	Val	Lys	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Gly	Asn	Thr	Glu
			180					185					190		
Leu	Asn	Arg	Trp	Leu	Leu	Asn	Thr	Leu	Ala	Gly	Thr	Ile	Gly	Ile	Gly
		195					200					205			
Leu	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Val	Thr	Tyr	Leu
	210					215					220				
Phe	Leu	Lys	Thr	His	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Met	Val	Val	Met	Ile	Phe	Tyr	Ala	Pro	Val	Leu
				245					250					255	
Phe	Ile	Tyr	Ile	Asn	Pro	Asp	Ser	Gly	Ser	Ser	Leu	Glu	Lys	Asp	Arg
			260					265					270		
Ile	Ile	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ala	Leu	Arg	Asn	Lys	Glu	Val	Arg	Cys	Ala	Leu	Asn	Arg	Lys
	290					295					300				
Leu	Arg	Ile	Leu	Ile											
305															

<210> 2548  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2548

Met	Arg	Asn	His	Ser	Ala	Val	His	Glu	Phe	Val	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Thr	Asp	Pro	His	Ile	Gln	Pro	Ala	Leu	Phe	Val	Leu	Phe	Leu	Leu	Val
			20					25					30		
Tyr	Leu	Leu	Thr	Val	Val	Gly	Asn	Ser	Leu	Met	Leu	Leu	Val	Ile	Val
		35				40						45			
Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Gln	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Cys	His	Ser	Ser	Val	Thr	Ala	Pro	Lys	Met	Leu
65					70				75					80	
Glu	Asn	Leu	Leu	Ser	Glu	Glu	Lys	Thr	Ile	Leu	Val	Glu	Ser	Cys	Leu
			85						90				95		
Ala	Gln	Ala	Phe	Phe	Val	Phe	Ala	Thr	Gly	Gly	Thr	Glu	Ala	Cys	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Gly	Ser	Pro	Leu
		115					120					125			
Leu	Tyr	Ser	Gln	Val	Met	Ser	Ser	Gln	Leu	Cys	Val	Gly	Leu	Val	Trp
	130					135					140				
Leu	Ser	Trp	Cys	Leu	Ala	Val	Val	Asp	Ala	Leu	Leu	Asn	Thr	Leu	Pro
145					150				155						160
Ala	Val	Ser	Leu	Asp	Phe	Cys	Glu	Asp	Gln	Thr	Ile	Ser	His	Phe	Ser
				165					170					175	
Cys	Glu	Leu	Ser	Ser	Leu	Phe	Pro	Leu	Ser	Cys	Ser	Asp	Thr	Ala	Ala
			180					185					190		
Asn	Phe	Thr	Leu	Leu	Leu	Cys	Ser	Ser	Val	Val	His	Phe	Phe	Gly	Thr
		195					200					205			
Leu	Val	Met	Ile	Val	Cys	Ser	Tyr	Gly	Arg	Ile	Val	Thr	Thr	Val	Leu
	210					215						220			
Arg	Val	Ser	Ser	Ser	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Leu
225					230					235					240



<210> 2550  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2550  
 Met Asn Met Thr Asn Asn Thr Met Val Thr Glu Phe Thr Leu Leu Gly  
 1 5 10 15  
 Ile Pro Glu Thr Glu Gly Leu Glu Asn Val Leu Leu Phe Leu Phe Ser  
 20 25 30  
 Thr Leu Tyr Ala Cys Ala Leu Leu Gly Asn Leu Leu Leu Leu Thr Ala  
 35 40 45  
 Val Thr Ser Ser Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Ile Ser Asp Met Gly Phe Cys Ser Thr Thr Ala Pro Lys  
 65 70 75 80  
 Met Leu Ser Tyr Leu Ser Gly Arg Gly Gly Gly Ile Ser Phe Gln Gly  
 85 90 95  
 Cys Val Val Gln His Phe Phe Tyr His Cys Ile Gly Cys Val Leu Cys  
 100 105 110  
 Phe Leu Tyr Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu Arg Tyr Thr Ile Ile Met Asn His Arg Val Cys Cys Val Leu  
 130 135 140  
 Ala Thr Gly Thr Trp Met Ser Gly Cys Val His Ala Thr Ile Leu Thr  
 145 150 155 160  
 Cys Leu Thr Phe Gln Leu Pro Tyr Cys Gly Pro Ser Glu Val Ser Tyr  
 165 170 175  
 Tyr Phe Cys Asp Met Pro Ala Val Leu Leu Leu Ala Cys Glu Asp Ser  
 180 185 190  
 Ser Leu Ala Gln Arg Val Gly Phe Thr Asn Val Gly Leu Leu Ser Leu  
 195 200 205  
 Ile Cys Phe Phe Leu Ile Val Val Ser Tyr Thr Arg Ile Gly Ile Ser  
 210 215 220  
 Ile Ser Lys Ile Arg Ser Thr Glu Gly Arg Gln Arg Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ala His Leu Thr Ala Ile Met Cys Val Tyr Gly Pro Val Ile  
 245 250 255  
 Val Ile Tyr Leu Gln Pro Asn Pro Ser Pro Leu Leu Ser Ala Ile Ile  
 260 265 270  
 Gln Ile Phe Asn Asn Leu Val Thr Pro Thr Ile Asn Pro Leu Ile Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg His Val Phe Leu  
 290 295 300  
 Lys Arg Cys Leu Ser Leu Glu Val Asn Glu Asn Ile  
 305 310 315

<210> 2551  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2551  
 Leu Ser Pro Glu Asn Ser Ser Thr Ile Thr Glu Leu Val Leu Val Gly  
 1 5 10 15  
 Phe Ser Asp Gln Pro Gln Thr Glu Leu Pro Leu Phe Val Phe Phe Ser  
 20 25 30

Leu	Val	Tyr	Leu	Ala	Ser	Cys	Leu	Gly	Asn	Thr	Ala	Val	Val	Ile	Leu
	35						40					45			
Val	Ala	Leu	Asp	Val	Ser	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
His	Leu	Ala	Phe	Leu	Asn	Gly	Phe	Phe	Gly	Thr	Val	Val	Thr	Pro	Lys
65					70					75					80
Met	Leu	Phe	Asn	Phe	Leu	Ala	Ser	Arg	Lys	Val	Ile	Ser	Tyr	Pro	Phe
			85						90					95	
Cys	Leu	Ala	Gln	Thr	Tyr	Leu	Thr	Leu	Phe	Leu	Glu	Ser	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
	115						120					125			
Pro	Leu	Arg	Tyr	Leu	Leu	Ile	Met	Ser	Trp	Ala	Val	Cys	Ile	Ala	Leu
	130					135					140				
Ala	Val	Ala	Val	Trp	Val	Thr	Gly	Phe	Cys	Ala	Ser	Val	Leu	Pro	Leu
145					150					155					160
Cys	Phe	Met	Ile	Leu	Pro	Leu	Cys	Gly	Pro	Tyr	Val	Val	Asp	Tyr	Leu
			165						170					175	
Phe	Cys	Glu	Leu	Pro	Ile	Leu	Leu	His	Leu	Phe	Cys	Ala	Asp	Thr	Ser
		180						185					190		
Leu	Gln	Glu	Ala	Met	Met	Ala	Val	Gly	Gly	Ala	Gly	Thr	Val	Leu	Val
	195						200					205			
Pro	Phe	Leu	Leu	Ile	Ala	Leu	Ser	Tyr	Leu	Arg	Ile	Leu	Val	Thr	Val
	210					215					220				
Ile	Arg	Ile	Asp	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys
225				230						235					240
Ala	Ser	His	Leu	Ala	Val	Val	Thr	Ile	Tyr	Tyr	Gly	Thr	Gly	Leu	Ile
			245						250					255	
Arg	Tyr	Leu	Arg	Pro	Lys	Ser	Leu	Tyr	Ser	Ala	Glu	Gly	Asp	Lys	Leu
		260						265					270		
Ile	Ser	Val	Phe	Tyr	Ala	Val	Ile	Gly	Pro	Ala	Leu	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Gln	Gly	Ala	Val	Arg	Arg	Val	Val
	290				295						300				
Glu	Arg	Tyr	Arg	Lys	Ser	Pro	Arg	Ile	Ala	Phe					
305					310					315					

<210> 2552

<211> 311

<212> PRT

<213> Mus musculus

<400> 2552

Met	Gly	Asn	His	Ser	Thr	Val	Thr	Thr	Phe	Leu	Leu	Trp	Gly	Phe	Ser
1				5					10					15	
Ser	Phe	Pro	Glu	Leu	His	Asn	Leu	Leu	Phe	Val	Val	Ile	Leu	Leu	Ser
			20					25					30		
His	Val	Thr	Ile	Leu	Leu	Ala	Asn	Ala	Ser	Ile	Met	Val	Ala	Ile	Lys
		35					40					45			
Leu	Asn	His	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Ala	Leu
	50					55				60					
Ser	Phe	Ser	Glu	Thr	Cys	Thr	Thr	Met	Val	Ile	Leu	Pro	Arg	Met	Leu
65					70					75					80
Val	Asp	Leu	Leu	Ser	Glu	Ser	Lys	Ala	Ile	Ser	Leu	Pro	Glu	Cys	Ala
				85					90					95	
Thr	Gln	Met	Phe	Phe	Phe	Phe	Gly	Leu	Ala	Ala	Asn	Asn	Cys	Phe	Ile
			100				105						110		
Met	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile	His	Ser	Pro	Leu



Ser	Thr	Phe	Ser	Leu	Leu	Val	Ser	Ser	Tyr	Val	Ile	Ile	Leu	Val	Thr
210						215					220				
Val	Trp	Phe	Lys	Ser	Ser	Ala	Ala	Met	Ala	Lys	Ala	Phe	Ser	Thr	Leu
225					230					235					240
Ala	Ala	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Ile	Tyr	Val	Trp	Pro	Phe	Thr	Thr	Tyr	Pro	Val	Asp	Lys	Ile	Leu	Ala
			260					265					270		
Ile	Phe	Tyr	Thr	Val	Phe	Thr	Pro	Ile	Leu	Asn	Pro	Ile	Ile	Tyr	Thr
			275				280					285			
Leu	Arg	Asn	Arg	Asp	Met	Lys	Ala	Val	Met	Gly	Lys	Ile	Ala	Ala	His
		290				295					300				
Tyr	Leu	Arg	Pro	Pro	Lys	Val	Ala	Glu	Met	Ser	Phe	Val	Ala	Arg	Ile
305					310					315					320
Ser	Leu	Tyr													

<210> 2554  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2554

Met	Ala	Thr	Ala	Val	His	Arg	Asn	Gly	Ser	Leu	Thr	Pro	Val	Ser	Leu
1				5					10					15	
Gln	Ala	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Gly	Ala	Glu	Thr	Gln	Ala
			20					25					30		
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Met	Val	Thr	Val	Leu	Gly
		35					40					45			
Asn	Leu	Thr	Met	Ile	Val	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser
		50				55					60				
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr
65					70					75					80
Ser	Ser	Val	Ile	Ala	Pro	Lys	Ala	Met	Ala	Asn	Phe	Tyr	Ser	Ser	Lys
				85					90					95	
Val	Ile	Gly	Val	Ala	Gly	Cys	Ala	Ala	Gln	Leu	Phe	Phe	Phe	Ser	Phe
			100					105						110	
Leu	Gly	Thr	Ser	Glu	Ala	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	
		115					120					125			
Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Val	Thr	Met	Ser	Ser
		130				135					140				
Thr	Val	Cys	Ala	Cys	Leu	Val	Leu	Ala	Ala	Tyr	Phe	Gly	Gly	Cys	Leu
145					150					155					160
Asn	Ser	Ile	Val	Glu	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys	Gly
				165					170					175	
Ser	Asn	His	Ile	Asp	His	Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu	Gln
			180					185					190		
Ile	Ala	Cys	Ala	Asn	Thr	Ser	Val	Asn	Glu	Leu	Val	Met	Phe	Ala	Ile
		195					200					205			
Cys	Gly	Phe	Ile	Leu	Met	Gly	Ala	Thr	Leu	Val	Ile	Leu	Ile	Ser	Tyr
		210				215					220				
Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Ser	Met	His	Ser	Gly	Ser	Arg	Arg
225					230					235					240
His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Leu
				245					250					255	
Phe	Tyr	Gly	Thr	Gly	Ile	Ala	Ile	Tyr	Gly	Gln	Pro	Gly	Gly	Leu	Ala
			260					265					270		
Ser	Lys	Glu	Gln	Gly	Lys	Val	Val	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile

	275		280		285										
Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
	290		295		300										
Asp	Ala	Leu	Glu	Arg	Leu	Arg	Gln	Arg	Gln	Arg	Gln	Lys	His	Ala	Ala
305			310		315										
Ile															

<210> 2555  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2555
Met Ala Thr Ala Val His Arg Asn Gly Ser Leu Thr Pro Val Ser Leu
1 5 10 15
Arg Val Phe Val Leu Val Gly Phe Gly Gly Gly Ala Leu Thr Gln Ala
20 25 30
Leu Leu Phe Ala Val Phe Leu Val Leu Tyr Val Val Thr Val Leu Gly
35 40 45
Asn Leu Thr Met Ile Val Val Ile Thr Leu Asp Ala Arg Leu His Ser
50 55 60
Pro Met Tyr Phe Phe Leu Lys Asn Leu Ser Phe Val Asp Leu Cys Tyr
65 70 75 80
Ser Ser Ala Ile Ala Pro Asn Ala Leu Ala Asn Phe Leu Ser Thr Ser
85 90 95
Lys Val Ile Ser Phe Glu Ala Cys Ala Thr Gln Phe Phe Phe Phe Ser
100 105 110
Leu Leu Ala Thr Thr Glu Thr Phe Leu Leu Ala Val Met Ala Tyr Asp
115 120 125
Arg Phe Met Ala Ile Cys Ser Pro Leu Arg Tyr Pro Val Thr Met Cys
130 135 140
Pro Thr Thr Cys Thr Arg Leu Val Leu Gly Thr Phe Cys Val Gly Cys
145 150 155 160
Leu Asn Ser Ile Val Gln Thr Ser Leu Thr Phe Gln Leu Pro Phe Cys
165 170 175
Ser Ser Asn Arg Ile Asp His Phe Tyr Cys Asp Val Pro Pro Leu Leu
180 185 190
Gln Leu Ala Cys Ala Ser Thr Ala Leu Asn Glu Leu Phe Leu Phe Gly
195 200 205
Leu Cys Gly Phe Ile Ile Val Ser Thr Thr Leu Ala Val Leu Val Ser
210 215 220
Tyr Gly Tyr Ile Thr Val Thr Ile Leu Arg Met His Ser Gly Ser Gly
225 230 235 240
Arg His Lys Val Phe Ser Thr Cys Gly Ser His Leu Thr Ala Val Ser
245 250 255
Leu Phe Tyr Gly Thr Leu Phe Val Met Tyr Ala Gln Pro Gly Ala Leu
260 265 270
Thr Ser Met Glu Gln Gly Lys Val Val Ser Ile Phe Tyr Thr Leu Val
275 280 285
Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val
290 295 300
Lys Asp Ala Leu Gln Arg Leu Gly Gln Arg His Ser Leu Val Lys
305 310 315

<210> 2556  
 <211> 313



<212> PRT

<213> Mus musculus

<400> 2556

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Met Gly Thr Val Cys Asn Asp Thr His Gly Asp Phe Ile Leu Arg Gly
 1      5      10      15
Phe Ser Asp Lys Pro Tyr Leu Glu Lys Val Leu Phe Gly Val Ile Leu
 20      25      30
Val Phe Tyr Cys Leu Thr Leu Ala Gly Asn Thr Ile Ile Ile Phe Val
 35      40      45
Ser Leu Lys Asp Pro Lys Leu Gln Ile Pro Met Tyr Phe Phe Leu Ser
 50      55      60
Asn Leu Ser Leu Leu Asp Ile Cys Phe Thr Ser Ser Cys Val Pro Gln
 65      70      75      80
Met Leu Val Asn Leu Arg Ser Pro Lys Lys Thr Ile Thr Tyr Ser Gly
 85      90      95
Cys Ala Thr Gln Leu Tyr Ile Phe Leu Trp Leu Gly Ala Thr Glu Cys
 100     105     110
Val Leu Leu Val Val Met Ala Val Asp Arg Tyr Val Ala Val Cys His
 115     120     125
Pro Leu Arg Tyr Val Thr Val Met His Pro Lys Val Cys Leu Gln Leu
 130     135     140
Ala Val Leu Ala Trp Gly Ser Gly Leu Ile Gln Ser Leu Ile Gln Ser
 145     150     155     160
Thr Ala Thr Leu Arg Leu Pro Phe Cys Ser Gln Arg Val Val Asp Asn
 165     170     175
Ile Val Cys Glu Val Pro Ala Leu Ile Gln Leu Ser Ser Ala Asp Thr
 180     185     190
Thr Tyr Asn Glu Val Gln Met Ser Ile Ala Ser Val Ile Leu Leu Val
 195     200     205
Leu Pro Leu Ala Ile Ile Leu Ser Ser Tyr Gly Ala Ile Val Lys Ser
 210     215     220
Val Leu Lys Ile Lys Ser Pro Ala Gly Gln Lys Lys Ala Phe Gly Thr
 225     230     235     240
Cys Thr Ser His Leu Leu Val Val Ser Leu Phe Tyr Gly Thr Val Thr
 245     250     255
Gly Val Tyr Leu Gln Pro Lys Thr His Tyr Ala His Glu Trp Gly Lys
 260     265     270
Phe Leu Thr Leu Phe Tyr Thr Val Ile Thr Pro Thr Leu Asn Pro Leu
 275     280     285
Ile Tyr Thr Leu Lys Asn Lys Glu Val Lys Glu Ala Val Ile Arg Leu
 290     295     300
Trp Trp Lys Thr Trp Ile Ser Gln Arg
305      310
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<210> 2557

<211> 312

<212> PRT

<213> Mus musculus

<400> 2557

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Met Ala Glu Glu Leu Trp Asn His Ser Ser Leu Ser Ser Phe Ile Leu
 1      5      10      15
Ala Gly Leu Phe Gly His Ser Pro Tyr Asp Ser Phe Phe Phe Ser Leu
 20      25      30
Val Leu Leu Ala Phe Gly Ala Ala Val Val Gly Asn Ile Leu Leu Leu
 35      40      45
Met Val Ile Gln Val Asp Arg Arg Leu His Thr Pro Met Tyr Phe Phe
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50						55						60					
Leu	Ser	Gln	Leu	Ser	Ile	Met	Asp	Leu	Thr	Met	Thr	Cys	Thr	Val	Val		
65					70					75					80		
Pro	Lys	Met	Ala	Thr	Asn	Phe	Leu	Ser	Gly	Gly	Lys	Leu	Ile	Ser	Leu		
				85					90					95			
Gly	Gly	Cys	Ala	Ser	Gln	Ile	Phe	Phe	Val	Val	Thr	Val	Gly	Gly	Ala		
			100					105					110				
Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Val		
		115					120					125					
Cys	Tyr	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	Trp	Lys	Ala	Cys	Ser		
		130				135					140						
Phe	Leu	Ala	Thr	Ala	Ser	Trp	Met	Gly	Gly	Met	Ala	Asp	Ser	Val	Ile		
145					150					155					160		
Asp	Val	Gly	Val	Val	Phe	Ser	Phe	Pro	Tyr	Cys	Gly	Ser	Leu	Glu	Val		
				165					170					175			
Asp	His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Arg	Leu	Ser	Cys	Ala		
			180					185					190				
Asp	Thr	Ser	Leu	Phe	Glu	Asp	Leu	Ile	Tyr	Ala	Cys	Cys	Val	Val	Met		
		195				200					205						
Leu	Leu	Leu	Pro	Leu	Gly	Val	Ile	Val	Ala	Ser	Tyr	Ala	Arg	Val	Leu		
210					215						220						
Thr	Thr	Val	Met	Arg	Met	Pro	Ser	Thr	Glu	Gly	Lys	Gln	Lys	Ala	Leu		
225					230					235					240		
Thr	Thr	Cys	Ser	Ser	His	Leu	Ala	Val	Val	Gly	Leu	Tyr	Tyr	Gly	Gly		
				245					250					255			
Ala	Ile	Phe	Ser	Tyr	Met	Gln	Arg	Ala	Ser	Ala	Arg	Thr	Pro	Leu	Gly		
			260					265					270				
Asp	Arg	Ala	Thr	Ser	Ile	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Phe	Asn		
		275					280					285					
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Val	Thr	Ser	Ala	Leu	Lys		
		290				295					300						
Lys	Met	Leu	Glu	Arg	Trp	Gly	Met										
305					310												

<210> 2558  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2558																	
Met	Asp	Ser	Phe	Asn	Ala	Thr	Leu	Glu	Glu	Arg	Phe	Phe	Leu	Val	Gly		
1				5					10					15			
Phe	Ser	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Phe	Val	Phe	Ile	Ser		
			20					25					30				
Ile	Val	Tyr	Ser	Leu	Thr	Ile	Phe	Gly	Asn	Thr	Thr	Ile	Ile	Ala	Leu		
		35				40						45					
Ser	Arg	Ile	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser		
		50				55				60							
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Thr	Val	Pro	Gln		
65				70					75					80			
Leu	Leu	Ile	Asn	Leu	Tyr	Gly	Gln	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly		
			85					90					95				
Cys	Val	Ala	Gln	Leu	Phe	Ile	Tyr	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys		
		100						105					110				
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg		
		115				120						125					
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Leu	Leu	Cys	Gln	Ala	Leu		
		130				135					140						

Ala	Leu	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145					150					155					160
Gly	Leu	Met	Met	Thr	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
			180					185					190		
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Ile	Ile	Leu	Val	Phe
		195					200					205			
Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser	Tyr	Gly	His	Ile	Ala	Lys	Ala	Val
	210					215					220				
Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Tyr
				245					250					255	
Thr	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	Tyr	Ser	Glu	Ser	Glu	Gly	Lys	Phe
			260					265					270		
Val	Ala	Leu	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu
	290					295					300				
Gly	Arg	Gly	Thr	Asp											
305															

<210> 2559

<211> 320

<212> PRT

<213> Mus musculus

<400> 2559

Met	Thr	Pro	Phe	Glu	Met	Thr	Asn	His	Thr	Arg	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Phe	Leu	Gly	Phe	Ser	Asn	His	Pro	Asn	Leu	Gln	Gly	Val	Phe	Phe	Leu
			20					25					30		
Ala	Phe	Leu	Ala	Ile	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Thr	Leu	Met
		35					40					45			
Ile	Val	Ala	Thr	Arg	Val	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Tyr
	50					55					60				
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Thr	Ser
65				70					75						80
Ile	Pro	Val	Met	Leu	Val	Asn	Phe	Phe	Arg	Glu	Lys	Lys	Thr	Ile	Ser
			85					90						95	
Phe	Glu	Gly	Cys	Leu	Ser	Gln	Ile	Phe	Phe	Phe	Val	Ser	Cys	Ala	Gly
			100					105					110		
Thr	Glu	Cys	Val	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	115					120						125			
Val	Cys	His	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Thr	Arg	Val	Cys
	130					135					140				
Ile	Ser	Leu	Val	Thr	Gly	Ser	Trp	Leu	Cys	Gly	Leu	Val	Asn	Ser	Val
145					150					155					160
Thr	His	Thr	Val	Leu	Thr	Ser	Thr	Leu	Thr	Leu	Cys	Gly	Pro	Asn	Gln
			165						170					175	
Ile	Ser	His	Phe	Leu	Cys	Asp	Val	Pro	Leu	Leu	Leu	Lys	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Thr	Ser	Val	Asn	Glu	Ser	Val	Leu	His	Val	Ser	Ser	Ala	Thr
	195					200						205			
Val	Gly	Leu	Ser	Pro	Cys	Leu	Phe	Thr	Ala	Gly	Ser	Tyr	Ile	Leu	Ile
	210					215					220				
Ile	Ser	Ala	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Gln	Gly	Lys	Arg	Lys	Ala

225					230					235				240	
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Val	Phe	Phe	Gly
				245					250					255	
Thr	Ala	Asn	Phe	Asn	Tyr	Val	Arg	Pro	Lys	Glu	Gly	Tyr	Ser	Leu	Asp
			260					265					270		
Met	Gly	Ile	Leu	Val	Ser	Val	Leu	Tyr	Cys	Val	Val	Thr	Pro	Leu	Phe
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu
	290					295					300				
Arg	Lys	Leu	Thr	Gly	Val	Pro	Ser	Leu	Thr	Ile	Ala	Val	Ala	Arg	Glu
305					310					315					320

<210> 2560

<211> 322

<212> PRT

<213> Mus musculus

<400> 2560

Met	Trp	Ile	Gln	Leu	Glu	Phe	Met	Glu	Asn	His	Lys	Asn	Ile	Thr	Glu
1				5					10					15	
Phe	Ile	Phe	Met	Gly	Leu	Trp	Glu	Asn	Arg	Gln	Ile	Glu	Leu	Leu	Phe
			20					25					30		
Phe	Phe	Leu	Phe	Leu	Leu	Cys	Tyr	Leu	Ala	Val	Leu	Met	Gly	Asn	Ser
		35					40					45			
Val	Ile	Phe	Leu	Thr	Ile	Thr	Cys	Ser	His	Leu	Ile	Glu	Gln	Pro	Met
	50					55					60				
Tyr	Tyr	Phe	Leu	Cys	His	Leu	Ser	Leu	Met	Asp	Leu	Cys	Tyr	Pro	Ser
65					70					75					80
Thr	Val	Ile	Pro	Arg	Leu	Ile	Arg	Asp	Leu	Ala	Ala	Thr	Arg	Lys	Asn
				85					90					95	
Ile	Ser	Tyr	Asn	Glu	Cys	Met	Thr	Gln	Leu	Phe	Thr	Ala	His	Leu	Leu
			100					105					110		
Ala	Gly	Val	Glu	Ile	Phe	Ile	Leu	Val	Ser	Met	Ala	Leu	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Val	Lys	Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Arg	Lys
	130					135					140				
Arg	Cys	Asp	Met	Leu	Ile	Val	Thr	Ala	Trp	Ile	Leu	Gly	Phe	Trp	His
145					150					155					160
Ser	Ile	Ala	Leu	Leu	Met	Val	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro	
			165					170					175		
Asn	His	Ile	Asn	His	Tyr	Phe	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Lys	Leu
			180					185					190		
Val	Cys	Lys	Asp	Val	His	Val	Val	Ser	Ile	Leu	Ala	Ile	Val	Asn	Ser
		195					200					205			
Gly	Met	Val	Leu	Phe	Ala	Ile	Phe	Ile	Val	Leu	Leu	Ala	Ser	Tyr	Ile
	210					215						220			
Leu	Ile	Leu	Tyr	Ser	Leu	Arg	Thr	Arg	Ser	Ser	Ala	Gly	Lys	Trp	Lys
225					230					235					240
Val	Leu	Ser	Thr	Cys	Ser	Ser	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe
				245					250					255	
Gly	Pro	Cys	Ile	Tyr	Thr	Tyr	Val	Leu	Pro	Ala	Gly	Ser	Glu	Asn	Lys
			260					265					270		
Asp	Lys	Glu	Ile	Ser	Val	Phe	Tyr	Thr	Val	Ile	Ala	Pro	Ile	Leu	Asn
		275					280						285		
Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Ser	Ala	Met	His
	290					295					300				
Lys	Val	Trp	Ser	Arg	Leu	Ser	Asn	Leu	Gly	Leu	Lys	Tyr	Val	Lys	Pro
305					310					315					320

Ser Cys

<210> 2561  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2561  
Met Asp Lys Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly  
1 5 10 15  
Leu Ser Asn Arg Trp Gly Ile Gln Leu Leu Leu Phe Leu Phe Ser Ser  
20 25 30  
Met Phe Tyr Ile Ala Ser Val Met Gly Asn Leu Leu Ile Val Phe Ser  
35 40 45  
Val Thr Ala Asp Ser Asn Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
50 55 60  
Asn Leu Ser Phe Leu Asp Leu Gly Val Cys Ser Ile Ala Ala Pro Lys  
65 70 75 80  
Met Ile Phe Asp Leu Phe Arg Lys His Lys Ala Ile Ser Phe Gly Gly  
85 90 95  
Cys Ile Thr Gln Ile Phe Phe Ile His Ala Ile Gly Gly Thr Glu Met  
100 105 110  
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys  
115 120 125  
Pro Leu His Tyr Leu Thr Ile Met Arg Pro Gln Ile Cys Ile Leu Ile  
130 135 140  
Leu Ala Val Ser Trp Val Leu Gly Leu Ile His Ser Val Ala Gln Leu  
145 150 155 160  
Ala Phe Val Val Asp Leu Pro Phe Cys Gly Pro Asn Ile Leu Asp Ser  
165 170 175  
Phe Tyr Cys Asp Leu Pro Gln Leu Ile Lys Leu Ala Cys Thr Glu Thr  
180 185 190  
Ser Lys Leu Val Phe Met Val Thr Ala Asn Ser Gly Leu Ile Ser Val  
195 200 205  
Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr  
210 215 220  
Val Arg Lys His Ser Ser Gly Ser Ile Ala Lys Ala Leu Ser Thr Leu  
225 230 235 240  
Ser Ala His Val Thr Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe  
245 250 255  
Phe Tyr Thr Trp Pro Phe Pro Ser Ser His Leu Asp Lys Phe Leu Ala  
260 265 270  
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr  
275 280 285  
Phe Arg Asn Lys Glu Met Lys Ala Ala Met Arg Lys Leu Cys Ser Gln  
290 295 300  
Leu Val Asn Tyr Arg Lys Val Ser  
305 310

<210> 2562  
<211> 298  
<212> PRT  
<213> Mus musculus

<400> 2562  
Ser Lys Leu Phe Leu Phe Val Phe Ser Ser Met Phe Tyr Val Ala Ser

1				5					10					15		
Met	Thr	Gly	Asn	Ser	Leu	Ile	Val	Phe	Thr	Val	Ala	Ser	Asp	Pro	His	
			20					25					30			
Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	Asn	Leu	Ser	Phe	Ile	Asp	
		35					40					45				
Leu	Gly	Val	Ser	Ser	Val	Ile	Ala	Pro	Lys	Met	Ile	Tyr	Asp	Leu	Phe	
	50					55					60					
Arg	Lys	His	Lys	Val	Ile	Ser	Phe	Arg	Gly	Cys	Val	Thr	Gln	Ile	Phe	
65					70					75					80	
Phe	Ile	His	Phe	Ile	Gly	Gly	Val	Glu	Met	Val	Leu	Leu	Ile	Ala	Met	
			85					90						95		
Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu	Ile	
			100					105					110			
Ile	Met	Arg	Pro	Arg	Met	Cys	Ile	Leu	Phe	Ile	Val	Ala	Ser	Trp	Val	
		115					120					125				
Val	Gly	Phe	Met	His	Ser	Leu	Val	Gln	Leu	Ala	Phe	Val	Val	Asn	Leu	
	130					135					140					
Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Ser	Phe	Tyr	Cys	Asp	Phe	Pro	
145					150					155					160	
Arg	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asp	Thr	Tyr	Arg	Leu	Lys	Leu	Leu	
			165					170						175		
Val	Leu	Val	Asn	Ser	Gly	Phe	Met	Ser	Val	Gly	Ser	Phe	Phe	Ile	Leu	
			180					185					190			
Ile	Ile	Ser	Tyr	Val	Val	Ile	Ile	Phe	Ile	Val	His	Lys	His	Ser	Ser	
		195					200					205				
Ser	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His	Val	Met	Val	
	210					215					220					
Val	Val	Leu	Phe	Phe	Gly	Pro	Val	Met	Phe	Ile	Tyr	Thr	Trp	Pro	Ser	
225					230					235					240	
Ser	Leu	Thr	His	Leu	Asp	Lys	Phe	Leu	Pro	Ile	Phe	Asp	Ala	Ile	Val	
				245					250					255		
Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Phe	Arg	Asn	Gln	Glu	Met	
			260					265					270			
Lys	Met	Ala	Met	Met	Arg	Val	Leu	Arg	Gln	Ile	Met	Gly	Tyr	Arg	Gln	
		275					280					285				
Ile	Ile	Lys	His	Leu	His	Pro	Asp	Gln	Ser							
	290					295										

<210> 2563

<211> 290

<212> PRT

<213> Mus musculus

<400> 2563

Asn	Ile	Gln	Leu	Leu	Leu	Phe	Leu	Leu	Ser	Ser	Val	Leu	Tyr	Val	Ala	
1				5					10					15		
Ser	Met	Met	Gly	Asn	Cys	Leu	Ile	Ile	Phe	Thr	Val	Ala	Ser	Asp	Pro	
			20					25					30			
Gln	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Asn	Leu	Ser	Phe	Ile	
		35					40				45					
Asp	Ile	Gly	Ile	Ser	Ser	Ala	Thr	Ser	Pro	Lys	Met	Ile	Tyr	Asp	Leu	
	50					55					60					
Phe	Lys	Lys	Asn	Lys	Val	Ile	Ser	Phe	Arg	Gly	Cys	Ile	Ile	Gln	Ile	
65					70					75					80	
Phe	Phe	Ile	His	Ala	Ile	Gly	Gly	Val	Glu	Met	Val	Leu	Leu	Ile	Ala	
			85					90						95		
Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu	
			100					105					110			

Thr	Met	Met	Ser	Pro	Gln	Met	Cys	Ile	Phe	Phe	Leu	Ile	Thr	Ala	Trp
		115					120					125			
Val	Val	Gly	Leu	Met	His	Ser	Val	Ile	Gln	Leu	Val	Phe	Ile	Val	Asn
		130				135						140			
Leu	Pro	Leu	Cys	Gly	Gln	Leu	Leu	Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro
145					150					155					160
Gln	Phe	Ile	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Arg	Leu	Glu	Leu	Met
				165					170						175
Val	Ser	Ile	Ser	Ser	Gly	Phe	Met	Ser	Val	Ala	Phe	Phe	Phe	Ile	Leu
			180					185					190		
Ile	Ile	Ser	Tyr	Val	Val	Ile	Ile	Phe	Thr	Val	Leu	Lys	His	Ser	Ser
		195					200					205			
Ser	Gly	Ser	Tyr	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His	Val	Thr	Val
	210					215					220				
Val	Val	Leu	Phe	Phe	Gly	Pro	Ala	Ile	Phe	Phe	Tyr	Thr	Trp	Pro	Ser
225					230					235					240
Ser	Ser	Thr	His	Leu	Asp	Lys	Phe	Leu	Ala	Leu	Phe	Asp	Ala	Val	Val
				245					250					255	
Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Met
			260					265					270		
Lys	Met	Ala	Met	Arg	Arg	Val	Phe	Arg	His	Leu	Met	Gly	Tyr	Arg	Gln
		275					280					285			
Ile	Ser														
	290														

<210> 2564

<211> 310

<212> PRT

<213> Mus musculus

<400> 2564

Met	Thr	Glu	Asn	Gln	Thr	Trp	Ile	Pro	Glu	Phe	Thr	Leu	Gln	Gly	Phe
1				5					10					15	
Leu	Leu	Ser	Pro	Arg	Met	Gln	Met	Leu	Leu	Cys	Gly	Leu	Phe	Ser	Leu
			20					25					30		
Leu	Tyr	Thr	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Val	Ile	Leu	Gly	Leu	Ile
		35					40					45			
Trp	Leu	Asp	Cys	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55				60					
Leu	Ala	Ile	Val	Asp	Ile	Ser	Tyr	Ala	Thr	Asn	Asn	Val	Pro	Lys	Met
65					70					75					80
Leu	Ala	Asn	Leu	Leu	Ala	Lys	Lys	Lys	Ser	Ile	Ser	Phe	Ala	Pro	Cys
			85						90					95	
Ile	Met	Gln	Thr	Phe	Leu	Tyr	Met	Ala	Phe	Ala	His	Thr	Glu	Cys	Leu
			100					105					110		
Ile	Leu	Val	Met	Met	Ser	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Gln	Pro
		115					120					125			
Leu	Gln	Tyr	Ser	Val	Ile	Met	Ser	Trp	Lys	Val	Cys	Thr	Ile	Met	Ala
	130					135					140				
Val	Ala	Ser	Trp	Ala	Cys	Gly	Ser	Leu	Leu	Ala	Leu	Val	His	Val	Val
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Leu	His	Glu	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Val	Cys	Ala	Asp	Thr	Thr
			180					185					190		
Leu	Asn	Gln	Ile	Val	Ile	Phe	Ala	Gly	Ser	Val	Phe	Ile	Leu	Val	Gly
		195					200					205			
Pro	Leu	Cys	Phe	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Ile	Ala	Ile

210		215		220
Leu Lys Ile Gln Ser Gly	Glu Gly Arg Arg Lys	Ala Phe Ser Thr Cys		
225	230	235	240	
Ser Ser His Leu Cys Val	Val Gly Leu Phe Phe	Gly Ser Ala Ile Val		
	245	250	255	
Met Tyr Met Ala Pro Lys	Ser Gln His Pro Glu	Thr Gln Gln Lys Val		
	260	265	270	
Leu Ser Leu Phe Tyr Ser	Leu Phe Asn Pro Met	Leu Asn Pro Leu Ile		
	275	280	285	
Tyr Ser Leu Arg Asn Ala	Glu Val Lys Gly Ala	Val Lys Arg Val Leu		
	290	295	300	
Trp Lys Gln Arg Ser Arg				
305	310			

<210> 2565

<211> 308

<212> PRT

<213> Mus musculus

<400> 2565

Met Ala Thr Gly Asn His	Ser Ala Ala Val Val	Phe Val Leu Val Gly		
1	5	10	15	
Leu Thr Gln Gln Pro Glu	Leu Leu Leu Pro Leu	Phe Ile Leu Phe Leu		
	20	25	30	
Gly Ile Tyr Val Val Thr	Ala Val Gly Asn Leu	Gly Met Ile Leu Leu		
	35	40	45	
Ile Thr Val Ser Pro Leu	Leu His Thr Pro Met	Tyr Tyr Phe Leu Ser		
	50	55	60	
Ser Leu Ser Phe Val Asp	Leu Ser Tyr Ser Thr	Val Ile Thr Pro Lys		
65	70	75	80	
Met Leu Val Asn Phe Leu	Gly Lys Lys Asn Phe	Ile Thr Tyr Ser Glu		
	85	90	95	
Cys Met Ala Gln Phe Phe	Phe Phe Ala Val Phe	Val Val Thr Glu Gly		
	100	105	110	
Tyr Leu Leu Thr Val Met	Ala Tyr Asp His Tyr	Val Ala Ile Cys Arg		
	115	120	125	
Pro Leu Leu Tyr Asn Val	Met Met Ser Ser Lys	His Cys Leu Leu Leu		
	130	135	140	
Val Leu Val Ala Phe Thr	Leu Gly Leu Phe Ser	Ala Val Val His Thr		
	145	150	155	
Ser Ala Met Met Ser Leu	Asn Phe Cys Lys Thr	Tyr Ile Ile Ser His		
	165	170	175	
Tyr Phe Cys Asp Ala Leu	Pro Leu Leu Lys Leu	Ser Cys Ser Asn Thr		
	180	185	190	
His Leu Asn Glu Leu Leu	Ile Phe Ile Ile Gly	Gly Ile Asn Thr Leu		
	195	200	205	
Val Pro Thr Leu Ala Val	Ala Ile Ser Tyr Val	Phe Ile Phe Cys Ser		
	210	215	220	
Ile Arg His Ile Lys Ser	Ser Ser Lys Ser Arg	Ser Lys Ala Phe Gly		
225	230	235	240	
Cys Ser Ser His Leu Met	Ala Val Gly Ile Phe	Phe Gly Ser Ile Thr		
	245	250	255	
Phe Met Tyr Leu Lys Pro	Ser Ser Ser Asn Ser	Leu Glu Gln Glu Lys		
	260	265	270	
Val Ser Ser Val Phe Tyr	Thr Thr Val Ile Pro	Met Leu Asn Pro Leu		
	275	280	285	
Ile Tyr Ser Leu Arg Asn	Lys Asp Val Lys Lys	Ala Leu Gly Arg Phe		
	290	295	300	



Ser Val Arg Arg  
305

<210> 2566  
<211> 318  
<212> PRT  
<213> Mus musculus

<400> 2566  
Met Arg Arg Asn Arg Asn Thr Ser Leu Asp Asp Val Val Thr Asp Phe  
1 5 10 15  
Leu Leu Leu Gly Leu Ala His Pro Pro Asn Leu Arg Ala Phe Leu Phe  
20 25 30  
Leu Val Phe Phe Leu Ile Tyr Ile Leu Thr Gln Leu Gly Asn Leu Leu  
35 40 45  
Ile Leu Leu Thr Val Trp Ala Asp Pro Lys Leu His Ala Arg Pro Met  
50 55 60  
Tyr Ile Leu Leu Gly Val Leu Ser Phe Leu Asp Met Trp Leu Ser Ser  
65 70 75 80  
Val Ile Val Pro Arg Ile Ile Leu Asn Phe Thr Pro Ala Ser Lys Val  
85 90 95  
Ile Ala Phe Gly Gly Cys Ala Ala Gln Leu Tyr Phe Phe His Phe Leu  
100 105 110  
Gly Ser Thr Gln Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Tyr  
115 120 125  
Leu Ala Ile Cys Gln Pro Leu Arg Tyr Pro Val Leu Met Asn Gly Lys  
130 135 140  
Leu Cys Thr Ile Leu Val Ser Gly Ala Trp Val Ala Gly Ser Ile His  
145 150 155 160  
Gly Ser Ile Gln Ala Thr Leu Thr Phe Arg Leu Pro Tyr Cys Gly Pro  
165 170 175  
Lys Glu Val Asp Tyr Phe Phe Cys Asp Ile Pro Ala Val Leu Arg Leu  
180 185 190  
Ala Cys Ala Asp Thr Thr Val Asn Glu Leu Val Thr Phe Val Asp Ile  
195 200 205  
Gly Val Val Ala Ala Ser Cys Phe Met Leu Ile Leu Leu Ser Tyr Ala  
210 215 220  
Asn Ile Val His Ala Ile Leu Lys Ile Arg Thr Ala Asp Gly Arg Lys  
225 230 235 240  
Arg Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Thr Val Tyr  
245 250 255  
Tyr Val Pro Cys Ile Phe Ile Tyr Leu Arg Ala Gly Ser Lys Ser Pro  
260 265 270  
Phe Asp Gly Ala Val Ala Val Phe Tyr Thr Val Val Thr Pro Leu Leu  
275 280 285  
Asn Pro Leu Ile Tyr Thr Leu Arg Asn Gln Glu Val Lys Ser Ala Leu  
290 295 300  
Lys Arg Leu Arg Ala Gly Arg Arg Asp Val Asp Gly Glu Lys  
305 310 315

<210> 2567  
<211> 311  
<212> PRT  
<213> Mus musculus

<400> 2567  
Met Glu Lys Asn Asn Glu Ser Ser Gly Glu Phe Ile Leu Leu Gly Phe

1	5	10	15
Ser Asp Gln Pro Arg Leu Glu Met Val Leu Phe Val Val Cys Thr Val			
	20	25	30
Phe Tyr Phe Leu Ala Val Thr Gly Asn Ser Ala Ile Ile Phe Leu Ser			
	35	40	45
Leu Met Asp Leu Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn			
	50	55	60
Leu Ser Leu Leu Asp Leu Cys Tyr Ser Thr Ser Ser Ile Pro Gln Phe			
65	70	75	80
Gln Ile Asn Leu Trp Gly Pro Arg Lys Thr Ile Ser Phe Val Gly Cys			
	85	90	95
Ala Val Gln Leu Phe Ala Phe Leu Ser Val Gly Gly Ile Glu Cys Ile			
	100	105	110
Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys Lys Pro			
	115	120	125
Leu His Tyr Leu Thr Ile Met His Pro Gln Leu Cys Leu Lys Leu Ala			
	130	135	140
Ala Phe Ala Trp Leu Gly Gly Thr Ala Ser Ser Thr Leu Met Ser Pro			
145	150	155	160
Leu Thr Met Ser Leu Gly Arg Cys Gly His Arg Arg Ile Asn His Phe			
	165	170	175
Val Cys Glu Met Pro Ala Ile Ile His Ile Ser Cys Val Asp Thr Ser			
	180	185	190
Trp Ile Glu Gly Leu Ile Phe Ile Leu Ala Ile Pro Ile Val Leu Val			
	195	200	205
Pro Leu Ile Met Ile Leu Val Ser Tyr Gly Tyr Ile Ala Ala Ala Val			
	210	215	220
Leu Arg Ile Lys Ser Thr Ala Ser Arg Arg Lys Ala Phe Asn Thr Cys			
225	230	235	240
Ser Ser His Met Ala Val Val Ser Leu Phe Tyr Ser Ser Ile Ile Tyr			
	245	250	255
Met Tyr Met Gln Pro Gly Asn Leu Ala Ser Gln Asp Gln Gly Lys Phe			
	260	265	270
Leu Thr Leu Phe Tyr Cys Leu Val Thr Pro Thr Leu Asn Pro Phe Ile			
	275	280	285
Tyr Ser Leu Arg Asn Lys Asp Met Lys Ala Ala Met Leu Lys Val Leu			
	290	295	300
Gly Lys Asp Arg Asn Leu Leu			
305	310		

<210> 2568

<211> 309

<212> PRT

<213> Mus musculus

<400> 2568

Met Ala Leu Ala Asn Val Ser Ser Val Lys Glu Phe Ile Leu Leu Gly	
1	5
Leu Thr Gln Gln Pro Glu Leu Gln Leu Pro Leu Phe Phe Leu Phe Leu	
	20
Gly Ile Tyr Val Val Ser Val Met Gly Asn Leu Gly Leu Ile Val Leu	
	35
Ile Val Leu Asn Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe	
	50
Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Ser Ala Ile Thr Pro Arg	
65	70
Met Leu Val Gly Phe Val Lys Gln Asn Ile Ile Ser His Ala Glu Cys	
	85
	90
	95

Leu	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr	
			100					105					110			
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro	
		115					120					125				
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr	
	130					135					140					
Met	Gly	Val	Tyr	Val	Met	Gly	Phe	Ala	Gly	Ala	Leu	Ser	His	Ile	Val	
145					150					155					160	
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	Asn	Tyr	
			165						170					175		
Val	Cys	Asp	Val	His	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Ser	Thr	Ser	
			180					185						190		
Ile	Asn	Glu	Leu	Val	Leu	Phe	Ile	Val	Val	Gly	Val	Asn	Ile	Thr	Val	
		195					200					205				
Pro	Ser	Leu	Thr	Leu	Phe	Val	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile	
		210				215					220					
Leu	Ser	Ile	His	Ser	Gly	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	
225					230					235					240	
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Phe	Phe	Phe	Gly	Ala	Ala	Ala	Phe	
			245						250					255		
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Glu	Asp	Lys	Val	Ser	
			260					265					270			
Thr	Ile	Phe	Tyr	Thr	Ile	Leu	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	
		275					280					285				
Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu	Lys	Lys	Thr	Leu	Lys	
	290					295					300					
Lys	Lys	Ile	Leu	Thr												
305																

<210> 2569

<211> 322

<212> PRT

<213> Mus musculus

<400> 2569

Lys	Ser	Ser	Ala	Ala	Pro	Ser	Asn	Ser	Ser	Thr	Ile	Thr	Gly	Phe	Ile	
1				5					10					15		
Leu	Leu	Gly	Phe	Pro	Cys	Pro	Arg	Glu	Gly	Gln	Ile	Leu	Leu	Phe	Val	
			20					25					30			
Leu	Phe	Ser	Ile	Val	Tyr	Leu	Leu	Thr	Leu	Met	Gly	Asn	Ala	Ser	Ile	
		35					40					45				
Ile	Cys	Ala	Val	Tyr	Cys	Asp	Gln	Lys	Leu	His	Ile	Pro	Met	Tyr	Leu	
	50					55					60					
Leu	Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Ser	Thr	
65					70					75					80	
Val	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Val	Ile	Ser	
				85					90					95		
Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Ser	
			100					105					110			
Thr	Glu	Cys	Phe	Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	
		115					120					125				
Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Ala	Leu	Met	Thr	Gly	Arg	Leu	Cys	
	130					135					140					
Asn	Ile	Leu	Val	Ile	Ser	Cys	Trp	Ile	Leu	Gly	Phe	Leu	Trp	Phe	Pro	
145					150					155					160	
Val	Pro	Ile	Ile	Ile	Ile	Ser	Gln	Val	Ser	Phe	Cys	Gly	Ser	Arg	Ile	
				165					170					175		
Ile	Asp	His	Phe	Leu	Cys	Asp	Pro	Gly	Pro	Leu	Leu	Ala	Leu	Thr	Cys	





<210> 2572  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2572  
 Met Glu Cys Val Asn Asp Thr Val Val Arg Glu Phe Val Phe Leu Gly  
 1 5 10 15  
 Phe Ser Ser Leu Ala Glu Leu Gln Leu Leu Leu Phe Ala Val Phe Leu  
 20 25 30  
 Ser Leu Tyr Leu Phe Thr Leu Ser Thr Asn Ala Val Ile Val Ser Thr  
 35 40 45  
 Ile Val Leu Asp Arg Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Val Leu Ser Cys Ser Glu Thr Cys Tyr Thr Phe Val Ile Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asp Leu Leu Ala Arg Lys Lys Ser Ile Ser Phe Leu Gly  
 85 90 95  
 Cys Ala Ile Gln Met Phe Thr Phe Leu Phe Leu Gly Cys Ser His Ser  
 100 105 110  
 Phe Leu Leu Ala Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Arg Tyr Thr Val Leu Met Gly His Arg Val Cys Val Gly Leu  
 130 135 140  
 Val Ala Ala Ala Cys Val Cys Gly Phe Thr Val Ala Gln Val Ile Thr  
 145 150 155 160  
 Ser Gln Val Phe Arg Leu Pro Phe Arg Ser Ser Asn Gln Leu His His  
 165 170 175  
 Phe Phe Cys Asp Ile Ser Pro Val Leu Gln Leu Ala Ser His His Pro  
 180 185 190  
 His Ser Thr Gln Ile Thr Ile Phe Leu Leu Cys Ala Leu Val Leu Val  
 195 200 205  
 Ile Pro Leu Leu Leu Ile Leu Val Ser Tyr Ile His Ile Ile Ser Ala  
 210 215 220  
 Ile Leu Gln Phe Pro Ser Thr Leu Gly Arg Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Ile Val Val Ile Val His Tyr Gly Cys Ala Ser  
 245 250 255  
 Phe Ile Tyr Leu Arg Pro Lys Ser Ser Tyr Ser Ser Ser Gln Asp Ala  
 260 265 270  
 Leu Ile Ser Val Ser Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Val  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Phe Lys Ser Ala Leu His Arg Val  
 290 295 300  
 Ile Gly Arg Thr Val Thr Leu Arg Gln His  
 305 310

<210> 2573  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<400> 2573  
 Ser Val Thr Pro Lys Met Leu Met Lys Phe Leu Asn Lys Asn Asp Met  
 1 5 10 15

Ile	Ser	Val	Gly	Glu	Cys	Phe	Ala	Gln	Tyr	Tyr	Phe	Phe	Cys	Phe	Ser
			20					25					30		
Ala	Thr	Thr	Glu	Ile	Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr
		35					40					45			
Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Leu	Val	Val	Met	Ser	Lys	Arg
	50					55					60				
Leu	Cys	Thr	Val	Phe	Ile	Ser	Leu	Ser	Tyr	Ile	Ile	Gly	Val	Leu	Asn
65					70					75					80
Pro	Ile	Val	His	Val	Gly	Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Lys	Ser
			85						90					95	
Asn	Val	Ile	Asp	His	Phe	Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Thr	Ile
			100					105					110		
Ser	Cys	Thr	Asp	Ala	Ser	Leu	Asn	Ala	Leu	Val	Ile	Phe	Ile	Phe	Ala
		115					120					125			
Ser	Ser	Ile	Gln	Ile	Ser	Thr	Ser	Val	Thr	Ile	Ile	Val	Ser	Tyr	Ala
	130					135					140				
Arg	Val	Leu	Phe	Ser	Val	Leu	Asn	Met	Lys	Ser	Glu	Lys	Gly	Arg	Arg
145					150					155					160
Lys	Ala	Phe	Phe	Thr	Cys	Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe
			165						170					175	
Tyr	Gly	Thr	Leu	Leu	Phe	Met	Tyr	Val	Ser	His	Gly	Ser	Ala	Pro	Gly
		180						185					190		
Glu	Asn	Gln	Asp	Lys	Met	Tyr	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro
		195					200					205			
Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Leu	Cys
	210					215					220				
Ala	Leu	Arg	Lys	Val	Val	Lys									
225					230										

<210> 2574

<211> 281

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (154)...(208)

<223> Any amino acid

<400> 2574

Met	Gly	Gln	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Thr
1				5					10					15	
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Ser	Leu	Met
			20					25					30		
Tyr	Ile	Ala	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile
	35					40						45			
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu
	50					55					60				
Ser	Leu	Met	Asp	Ala	Val	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Ile
65					70					75					80
Val	Asp	Leu	Leu	Arg	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Ile
				85					90					95	
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile
			100					105					110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115				120						125			
His	Tyr	Leu	Ile	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Phe	Leu	Val
	130					135					140				

Met	Ala	Trp	Val	Gly	Gly	Phe	Val	His	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155						160
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165						170						175
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180						185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	His	Xaa	Xaa	Xaa	Xaa	Xaa
		195						200				205				
Phe	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr	Val	Arg	Pro	Val	Ser	
	210					215					220					
Ser	Phe	Pro	Ile	Asp	Lys	Ser	Ile	Thr	Val	Ile	Tyr	Thr	Ile	Val	Thr	
225					230					235						240
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	
				245					250					255		
Asn	Ser	Met	Glu	Lys	Leu	Leu	Gln	Lys	Met	Leu	Ser	Pro	Asn	Arg	Ile	
			260					265					270			
Lys	Leu	Ser	Ser	Cys	Cys	Ser	Tyr	Asp								
		275					280									

<210> 2575

<211> 253

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (108)...(127)

<223> Any amino acid

<400> 2575

Met	Leu	His	Val	Asn	Ile	Thr	Asn	Thr	Ile	Phe	Ser	Thr	Phe	Leu	Val	
1				5					10					15		
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Val	Tyr	Ile	Trp	Ile	Ala	Ile	Pro	
			20					25					30			
Phe	Cys	Ala	Met	Phe	Leu	Ile	Thr	Met	Val	Gly	Asn	Met	Thr	Ile	Ile	
		35					40				45					
Ile	Val	Ile	Trp	His	Glu	Gln	Thr	Leu	His	Val	Pro	Met	Tyr	Leu	Phe	
	50					55					60					
Leu	Ala	Met	Leu	Ala	Ser	Ser	Asp	Leu	Gly	Leu	Ser	Leu	Phe	Thr	Phe	
65				70					75						80	
Pro	Thr	Leu	Leu	Arg	Ile	Phe	Leu	Leu	Asn	Asp	Arg	Glu	Leu	Thr	Thr	
				85					90					95		
Thr	Ala	Cys	Phe	Thr	Gln	Met	Phe	Phe	Ile	His	Xaa	Xaa	Xaa	Xaa	Xaa	
			100					105					110			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Glu
		115						120				125				
Gly	His	Lys	Trp	Cys	Gln	Ile	Gln	Asp	Ser	Leu	Asp	Leu	Glu	Leu	Gly	
	130					135					140					
Met	Val	Val	Ser	Gln	Ala	Met	Val	Leu	Thr	Glu	Ala	Trp	Val	Phe	Tyr	
145				150						155					160	
Lys	Ser	Asn	Thr	Ser	Leu	Leu	Asn	His	Leu	Tyr	Asn	Arg	His	Ser	Cys	
				165					170					175		
Lys	Phe	Val	Ser	Thr	Gly	Tyr	Ile	Ser	Leu	Leu	Phe	Ser	Arg	Glu	Ile	
			180					185					190			
Leu	His	Gln	Phe	Ser	Tyr	Gln	Phe	Leu	Ile	Ile	Ile	Gln	Leu	Pro	Ile	
		195					200					205				
Tyr	Leu	Ile	Asp	Ile	Asn	Ile	Lys	Cys	Asn	Asn	Ser	Leu	Val	Phe	Ile	
	210					215					220					



Val	Leu	Ser	Cys	Val	Leu	Thr	Lys	Val	Val	Gln	Ser	His	Ala	Thr	Leu
225					230					235					240
Ile	Glu	Val	Val	Met	Glu	Glu	Gly	Lys	Asp	Leu	Pro	Asn			
				245					250						

<210> 2576  
 <211> 97  
 <212> PRT  
 <213> Mus musculus

<400> 2576

Met	Glu	Lys	Tyr	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Tyr	His	Pro	Glu	Phe	Gln	Val	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20				25						30		
Ile	Ile	Tyr	Leu	Thr	Ser	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Met	Val	Asp	Ser	Gly	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75					80
Met	Leu	Arg	Asn	Phe	Thr	Cys	Asn	Gln	Asn	Thr	Ile	Ser	Phe	Asn	Ala
				85					90					95	

Cys

<210> 2577  
 <211> 163  
 <212> PRT  
 <213> Mus musculus

<400> 2577

Leu	Gln	Ser	Ser	Val	His	Val	Ala	Leu	Ala	Phe	Cys	Leu	Ser	Phe	Cys
1				5					10					15	
His	Ser	Asn	Val	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu
			20					25					30		
Asp	Ile	Ser	Cys	Ser	Asp	Thr	His	Thr	Asn	Glu	Ile	Thr	Leu	Leu	Val
		35					40					45			
Leu	Ala	Thr	Leu	Asp	Val	Val	Phe	Thr	Leu	Leu	Val	Ile	Leu	Asn	Thr
	50					55					60				
Tyr	Leu	Leu	Ile	Phe	Ile	Ala	Ile	Leu	Arg	Met	Arg	Ser	Ala	Glu	Ala
65					70					75					80
Gln	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ile	Thr	Val	Ser
				85					90					95	
Ile	Phe	Phe	Gly	Ser	Leu	Ile	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Phe	Asn
			100					105					110		
His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Ala	Ser	Val	Phe	Tyr	Thr	Met	Val
		115					120					125			
Ile	Pro	Met	Leu	Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val
	130					135					140				
Lys	Asn	Ala	Phe	Lys	Lys	Val	Val	Glu	Lys	Leu	Met	Ser	Ser	Phe	His
145					150					155					160

Leu Val Asp

<210> 2578

<211> 124  
 <212> PRT  
 <213> Mus musculus

<400> 2578

Ser	Leu	Leu	Cys	Phe	Thr	Lys	Ser	Phe	Leu	Gly	Ala	Leu	Val	Leu	Met
1				5					10					15	
Gln	Leu	Ala	Leu	His	Pro	Arg	Gly	Ala	Val	Leu	Gln	Phe	Gln	Lys	Thr
			20					25					30		
Leu	Leu	Thr	Thr	Val	Asp	Lys	Asn	Arg	Trp	Met	Ser	Ser	Ala	Ala	Gly
		35					40					45			
Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr
	50					55					60				
Ile	Phe	Tyr	Gly	Thr	Leu	Ala	Tyr	Met	Tyr	Leu	His	Pro	His	Thr	Asn
65					70					75					80
Asp	Ser	Gln	Glu	Gln	Glu	Lys	Ala	Ala	Ser	Val	Phe	Tyr	Gly	Ile	Ile
				85					90					95	
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Asp	Val
			100					105					110		
Ile	Glu	Ala	Phe	Lys	Lys	Ile	Ala	Lys	Lys	Cys	Leu				
		115					120								

<210> 2579  
 <211> 262  
 <212> PRT  
 <213> Mus musculus

<400> 2579

Arg	Leu	Pro	Leu	Val	Gly	Trp	Pro	Phe	Leu	Leu	Cys	Phe	Cys	Gln	Pro
1				5					10					15	
Met	Ser	Ile	Gly	Asp	Val	Ser	Ile	Phe	Val	Leu	Phe	Asn	Lys	Glu	Met
			20					25					30		
Asn	Ile	Pro	Met	Tyr	Phe	Leu	Ser	Ile	Leu	Pro	Thr	Leu	Asp	Met	Asp
		35					40					45			
Tyr	Val	Ser	Val	Thr	Val	Pro	Asn	Thr	Cys	Ile	Asn	Thr	Leu	Ser	Asp
	50					55					60				
His	Arg	Asn	Ile	Ser	Val	Gly	Gly	Cys	Ala	Ala	Gln	Ile	Phe	Leu	Leu
65					70					75					80
Tyr	Ile	Cys	Thr	Cys	Val	Glu	Ile	His	Phe	Phe	Thr	Thr	Met	Ala	Gln
				85					90					95	
Asp	His	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Ser	Val	Ile	Met
			100					105					110		
Asn	His	Arg	Leu	Cys	Val	Gln	Met	Thr	Leu	Ala	Ser	Leu	Leu	Ser	Ser
		115					120					125			
Leu	Val	Leu	Ala	Ile	Val	His	Thr	Phe	Lys	Ile	Phe	Gln	Leu	Ser	Phe
	130					135					140				
Cys	Tyr	Ser	Ser	Met	Val	Pro	Gln	Phe	Phe	Cys	Asp	Ile	Pro	Phe	Ala
145					150					155					160
Glu	Val	Ser	Cys	Ser	Asp	Thr	Phe	Asn	Asn	Lys	Leu	Leu	Ile	Leu	Leu
				165					170					175	
Ser	Ala	Thr	Val	Val	Ser	Gly	Ser	Tyr	Phe	Val	Phe	Leu	Val	Ile	Ser
		180						185					190		
Tyr	Ala	His	Arg	Leu	Ser	Asn	Val	Leu	Lys	Phe	Pro	Val	Lys	Arg	Glu
		195				200						205			
Ile	Gly	Lys	Ala	Phe	Ser	Thr	Phe	Val	Leu	His	Phe	Ile	Val	Val	Ser
	210					215					220				
Val	Phe	Leu	Cys	Ser	Gly	Ala	Tyr	Val	Tyr	Leu	Ser	Thr	Leu	Gly	Thr
225					230					235					240

Ile	Val	Thr	Leu	Glu	Val	Lys	Glu	Met	Ile	Leu	Ser	Val	Phe	Tyr	Thr
				245					250					255	
Ile	Ala	Thr	Pro	Phe	Phe										
				260											

<210> 2580  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2580															
Phe	Phe	Pro	Asn	Met	Trp	Val	Ala	Val	Ser	Tyr	Tyr	Trp	Gln	Cys	Pro
1				5					10					15	
Leu	Ser	Tyr	Arg	Tyr	Val	Pro	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Met	Ser
			20					25					30		
Ile	Lys	Ser	Leu	Asn	Leu	Tyr	Val	Leu	Leu	Val	Val	Ile	Ser	Trp	Ala
		35					40					45			
Phe	Pro	Ser	Ala	Asn	Ala	Leu	Val	His	Ile	Leu	Leu	Leu	Ala	Arg	Leu
	50					55					60				
Ser	His	Phe	Arg	His	Asn	Thr	Ile	Pro	His	Ile	Phe	Lys	Arg	Ser	Ala
65					70				75						80
Leu	Leu	Asn	Leu	Ser	Ser	Ser	Glu	Thr	Ile	Ile	Asn	Glu	Leu	Val	Ile
			85						90				95		
Leu	Pro	Leu	Gly	Thr	Val	Ile	Ile	Leu	Val	Thr	Tyr	Gly	Leu	Ile	Arg
			100					105					110		
Val	Thr	Ile	Leu	Arg	Thr	Leu	Pro	Ile	Lys	Gly	Ile	Cys	Lys	Ala	Leu
		115					120					125			
Ser	Thr	Cys	Asp	Ser	His	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Ala	Ile
	130					135					140				
Ile	Gly	Leu	Tyr	Leu	Val	Pro	Ser	Ser	Asn	Asn	Ile	Asn	Asp	Lys	Asp
145					150					155					160
Val	Asn	Val	Ser	Ala	Ile	Tyr	Asn	Val	Val	Ile	Pro	Met	Ile	Asn	Thr
				165					170					175	
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Trp	Asp	Ile	Ile	Leu	Ser	Glu	Val	Thr
			180					185					190		
Gln	Thr														

<210> 2581  
 <211> 188  
 <212> PRT  
 <213> Mus musculus

<400> 2581															
Ser	Asn	Pro	Ala	Ser	Thr	Leu	Ile	Tyr	Ser	Thr	Gln	Met	Asn	His	Ile
1				5					10					15	
Ile	Gln	Arg	Ile	Leu	Val	Ala	Ser	Ser	Trp	Val	Cys	Ser	Phe	Ser	Ser
			20					25					30		
Val	Leu	Thr	His	Thr	Val	Ala	Ile	Ser	Thr	Leu	His	Phe	Cys	Gly	Leu
		35				40					45				
Asn	Val	Val	Asn	Asn	Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Leu	Phe	Gln	Leu
	50					55					60				
Ser	Cys	Ser	Thr	Thr	Gln	Leu	Asn	Glu	Leu	Leu	Phe	Ala	Val	Gly	
65					70					75				80	
Phe	Leu	Met	Thr	Glu	Thr	Ser	Met	Ala	Leu	Ile	Phe	Thr	Phe	Tyr	Ile
				85					90					95	
Tyr	Gly	Ala	Val	Ala	Ile	Leu	Gln	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Lys

			100					105				110					
Ala	Phe	Ser	Thr	Tyr	Ser	Ser	His	Leu	Thr	Val	Val	Ala	Ile	Phe	Tyr		
		115					120					125					
Gly	Thr	Gly	Ile	Phe	Ala	Tyr	Met	Ser	Leu	Arg	Ser	Ile	Lys	Leu	Ser		
	130					135					140						
Asp	Asn	Asp	Lys	Ala	Ile	Gly	Ile	Phe	Asn	Thr	Val	Ile	Asn	Pro	Met		
145					150					155					160		
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Ala	Ala		
			165						170					175			
Leu	Trp	Lys	Val	Leu	Thr	Gly	Lys	Gln	Leu	Ser	His						
			180					185									

<210> 2582

<211> 331

<212> PRT

<213> Mus musculus

<400> 2582

Phe	Phe	Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Asp	Leu	Phe	Lys	Gln	Glu		
1			5					10						15			
Lys	Leu	Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Thr	Leu	Leu	Gly	Phe	Ser		
			20					25					30				
Asn	Val	Pro	His	Leu	Gln	Trp	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met		
		35					40					45					
Tyr	Met	Thr	Ile	Leu	Leu	Cys	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys		
	50					55					60						
Thr	Asp	Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe		
65				70						75					80		
Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val	Thr	Ala	Thr	Ile	Pro	Arg	Met	Leu		
			85						90					95			
Met	Asp	Leu	Tyr	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Val	Phe	Ala	Cys	Ala		
			100					105					110				
Thr	Gln	Met	Tyr	Phe	Val	Leu	Met	Leu	Gly	Ala	Thr	Glu	Cys	Leu	Leu		
		115					120					125					
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu		
	130					135					140						
Gln	Tyr	Ser	Leu	Leu	Met	Lys	Asn	Lys	Val	Cys	Leu	Gln	Leu	Val	Ala		
145					150					155					160		
Ala	Ser	Trp	Ile	Ser	Gly	Ile	Pro	Val	Glu	Ile	Gly	Gln	Thr	Tyr	Gln		
			165						170					175			
Ile	Phe	Ser	Leu	His	Phe	Cys	Ala	Ser	Asn	Arg	Ile	Asp	His	Phe	Phe		
			180					185					190				
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Met		
		195					200					205					
Asn	Thr	Val	Ala	Val	Tyr	Val	Val	Ala	Val	Val	Phe	Val	Met	Val	Pro		
	210					215					220						
Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ile	Lys	Ile	Ile	Cys	Asn	Ile	Met		
225					230					235					240		
Lys	Leu	Ser	Ser	Ala	Lys	Gly	Met	Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser		
			245						250					255			
Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Ala	Ser	Ile	Thr		
			260					265					270				
Tyr	Leu	Gln	Pro	Lys	Gln	Ser	Gln	Ser	Glu	Gly	Met	Gly	Lys	Met	Leu		
	275					280						285					
Ser	Leu	Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Ala	Leu	Asn	Pro	Ile	Ile	Tyr		
	290					295					300						
Ser	Leu	Arg	Glu	Gln	Arg	Tyr	His	Asp	Gly	Leu	Leu	Arg	Lys	Leu	His		
305					310					315					320		

Ser Lys Leu Leu Ile Trp Trp Glu Asn Val Lys  
 325 330

<210> 2583  
 <211> 297  
 <212> PRT  
 <213> Mus musculus

<400> 2583  
 Met Gly Gln Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Phe Thr  
 1 5 10 15  
 Gln Asp Pro Ala Gly Gln Lys Ala Leu Phe Val Met Phe Ser Leu Met  
 20 25 30  
 Tyr Ile Ala Thr Met Val Gly Asn Leu Leu Ile Val Gly Thr Val Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu  
 50 55 60  
 Ser Leu Met Asp Ala Val Tyr Ser Thr Ala Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Val Asp Leu Leu Arg Glu Lys Lys Thr Ile Ser Phe Arg Ala Cys Ile  
 85 90 95  
 Ser Gln Leu Phe Ile Glu His Leu Phe Gly Gly Val Asp Ile Val Ile  
 100 105 110  
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Leu Ile Ile Met Asn Arg Arg Val Cys Ile Leu Phe Leu Val  
 130 135 140  
 Met Ala Trp Val Gly Gly Phe Val His Ala Leu Phe Gln Val Leu Ala  
 145 150 155 160  
 Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Gly  
 165 170 175  
 Cys Asp Ile Tyr Pro Leu Leu Leu Leu Ala Cys Thr Asp Thr Tyr Phe  
 180 185 190  
 Ile Gly Leu Ser Val Ile Gly Asn Asn Gly Ala Met Cys Ile Val Ile  
 195 200 205  
 Phe Ile Leu Leu Leu Leu Ser Tyr Gly Ile Ile Leu Arg Ser Leu Lys  
 210 215 220  
 Asn His Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ser  
 225 230 235 240  
 His Ile Thr Val Val Phe Leu Phe Phe Val Pro Cys Ile Phe Met Tyr  
 245 250 255  
 Val Arg Pro Val Ser Ser Phe Pro Ile Asp Lys Phe Ile Thr Val Ile  
 260 265 270  
 Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Ser Glu Met Lys Asn Ser Arg Lys  
 290 295

<210> 2584  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2584  
 Ser Gln Thr Ala Asp Pro Lys Asn Ser Ser Ser Thr Val Thr Glu Phe  
 1 5 10 15  
 Ile Leu Val Gly Phe Glu Gln Ser Ser Pro Ser Thr Arg Ala Leu Leu



Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Arg	Tyr	Thr	Ile	Ile	Met	Arg	Gly	Asn	Val	Cys	Ala	Gly	Ile	Val	Ala
		130				135					140				
Thr	Ala	Trp	Ala	Thr	Gly	Phe	Leu	His	Ser	Val	Ser	Gln	Leu	Ala	Phe
145					150					155					160
Ala	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asp	Ser	Phe	Tyr
			165						170					175	
Cys	Asp	Leu	Pro	Arg	Val	Ile	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Tyr	Arg
		180						185				190			
Leu	Asp	Ile	Met	Val	Ile	Ala	Asn	Ser	Gly	Val	Leu	Thr	Val	Cys	Ser
		195					200					205			
Phe	Val	Leu	Leu	Ile	Ile	Ser	Tyr	Ser	Ile	Ile	Leu	Thr	Thr	Ile	Gln
		210				215					220				
Arg	Arg	Pro	Ser	Asp	Arg	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	Thr	Ala
225					230					235					240
His	Ile	Thr	Val	Val	Leu	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe	Ile	Tyr
			245						250					255	
Ala	Trp	Pro	Phe	Pro	Ile	Lys	Ser	Leu	Asp	Lys	Phe	Leu	Ala	Val	Phe
			260					265					270		
Tyr	Ser	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg
		275				280						285			
Asn	Thr	Glu	Met	Lys	Thr	Ala	Met	Arg	Arg	Pro	Glu	Thr	Met	Glu	Phe
	290					295					300				
Lys	Leu	Leu	Gly	Glu	Leu	Ile	Asp	Leu	Leu	Trp	Pro	Arg	Asp		
305					310					315					

<210> 2586

<211> 310

<212> PRT

<213> Mus musculus

<400> 2586

Met	Gly	Ala	Thr	Asn	Asp	Ser	Thr	Phe	Ser	His	Phe	Ile	Leu	Thr	Gly
1				5				10					15		
Phe	Ser	Asp	Arg	Pro	Glu	Leu	Glu	Arg	Val	Leu	Phe	Ala	Ile	Leu	Leu
		20						25				30			
Pro	Ala	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Ser	Thr	Ile	Ile	Leu	Val
		35				40					45				
Ser	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Ser	Phe	Thr	Ser	Ser	Ser	Ile	Pro	Gln
65				70					75					80	
Leu	Leu	Tyr	Asn	Leu	Ser	Gly	Pro	Asp	Lys	Thr	Ile	Ser	Tyr	Val	Gly
			85					90					95		
Cys	Ala	Leu	Gln	Leu	Val	Leu	Phe	Leu	Gly	Leu	Gly	Gly	Val	Glu	Cys
		100						105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Gly	Leu
		130				135					140				
Val	Ser	Val	Ala	Trp	Ser	Cys	Gly	Val	Ala	Asn	Ser	Leu	Ala	Met	Ser
145					150					155					160
Pro	Ala	Thr	Leu	Ser	Leu	Pro	Arg	Cys	Gly	His	His	Arg	Val	Asp	His
			165						170					175	
Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Arg	Met	Ala	Cys	Val	Asn	Thr
			180					185					190		
Ala	Ala	Val	Glu	Gly	Thr	Val	Phe	Val	Leu	Ala	Ile	Gly	Ile	Val	Leu

	195		200		205										
Ser	Pro	Leu	Val	Phe	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Val	Arg	Ala
	210					215					220				
Val	Leu	Gln	Ile	Arg	Ser	Ala	Ala	Gly	Arg	Gln	Lys	Ala	Phe	Asn	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Asn	Ile	Ile
			245						250					255	
Tyr	Met	Tyr	Met	Gln	Pro	Gly	Asn	Ser	Ser	Ser	Gln	Asp	Gln	Gly	Lys
			260					265					270		
Phe	Leu	Thr	Leu	Phe	Tyr	Asn	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu
	290				295						300				
Leu	Leu	Gly	Ser	Arg	Glu										
305					310										

<210> 2587

<211> 316

<212> PRT

<213> Mus musculus

<400> 2587

Met	Ser	Asn	Ser	Glu	Leu	Met	Lys	Asn	Gly	Ser	Leu	Ser	Leu	Cys	Thr
1				5					10					15	
Glu	Phe	Thr	Leu	Val	Ala	Phe	Ser	Ser	Leu	Ala	Glu	Leu	Gln	Leu	Val
			20					25					30		
Leu	Phe	Val	Val	Phe	Leu	Val	Leu	Tyr	Leu	Phe	Thr	Val	Gly	Gly	Asn
		35				40						45			
Leu	Thr	Ile	Ile	Cys	Val	Ile	Trp	Thr	Thr	Pro	Ser	Leu	His	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Phe	Leu	Glu	Met	Cys	Tyr	Ile
65				70					75						80
Ser	Ser	Val	Val	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Val	Gln	Leu	Lys
			85						90				95		
Thr	Ile	Ser	Val	Ala	Gly	Cys	Ala	Ala	Gln	Met	Tyr	Val	Phe	Thr	Ile
			100					105					110		
Leu	Gly	Leu	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Val	Ala	Ile	Cys	Tyr	Pro	Leu	His	Tyr	Thr	Leu	Trp	Met	Asp	Pro
	130					135					140				
Ser	Val	Cys	Leu	Lys	Leu	Ala	Gly	Ala	Ser	Trp	Met	Thr	Gly	Ile	Leu
145				150					155						160
Val	Glu	Ser	Ala	Gln	Thr	Thr	Trp	Ile	Phe	Thr	Leu	Pro	Phe	Cys	Gly
			165						170					175	
Ala	Gly	Thr	Ile	Gln	His	Phe	Phe	Cys	Asp	Ile	Met	Pro	Val	Val	Lys
			180					185					190		
Leu	Ala	Cys	Val	Asp	Thr	Ser	Gln	Asn	Glu	Met	Val	Ile	Phe	Ile	Ile
		195					200					205			
Ser	Leu	Ile	Phe	Ile	Met	Ser	Pro	Cys	Leu	Phe	Ile	Leu	Cys	Ser	Tyr
	210					215					220				
Val	Arg	Ile	Ile	Leu	Thr	Ile	Leu	Lys	Met	Pro	Ser	Ala	Ala	Gly	Arg
225				230					235						240
His	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Leu	Val	Val	Ser	Leu
			245						250					255	
Phe	Tyr	Gly	Thr	Ala	Leu	Phe	Thr	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	His
		260						265					270		
Thr	Pro	Asp	Thr	Asp	Lys	Val	Thr	Ala	Leu	Met	Tyr	Thr	Val	Val	Thr
	275						280					285			



Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys
	290					295					300				
Glu	Ala	Phe	Gln	Lys	Val	Thr	Gln	Lys	Glu	Thr	Ser				
305					310					315					

<210> 2588  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2588

Met	Gly	Gly	Lys	Asn	Gln	Thr	Asp	Val	Ser	His	Phe	Phe	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asp	Pro	Thr	Val	Lys	Pro	Val	Ile	Phe	Cys	Ile	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Met	Val	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Cys	Ser	Tyr	Ser	His	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50					55					60				
Asn	Leu	Ser	Ile	Asn	Asp	Ile	Cys	Leu	Ser	Thr	Thr	Val	Ile	Pro	Asn
65					70					75					80
Met	Leu	Arg	Thr	Thr	Gln	Thr	Gln	Asp	Gln	Ser	Ile	Ser	Tyr	Ala	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Leu	Cys	Phe	Val	Leu	Leu	Phe	Ala	Gly	Phe	Glu	Ser
			100					105					110		
Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	Ser	Tyr	Thr	Val	Met	Met	Asn	Phe	His	Ser	Cys	Ala	Leu	Leu
	130					135					140				
Ile	Leu	Phe	Ser	Val	Leu	Ile	Ser	Val	Leu	Asn	Met	Gly	Leu	Leu	Gly
145					150					155					160
Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Leu	Glu	Ile	Pro	Leu
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Ser	Gln	Val	Met	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Leu	Ile	Asn	Asp	Ile	Leu	Ile	Tyr	Leu	Ala	Thr	Phe	Ile	Phe	Gly	Gly
		195					200					205			
Ile	Pro	Ile	Ser	Gly	Ile	Ile	Phe	Ser	Tyr	Val	Gln	Ile	Ala	Ser	Ser
	210					215						220			
Val	Leu	Arg	Ile	Ser	Ser	Val	Lys	Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Thr	Ser	Leu	Ser	Tyr	Gly	Ser	Gly	Leu
				245					250					255	
Trp	Val	Tyr	Ile	Thr	Ser	Ser	Val	Ala	Ile	Leu	Pro	Lys	Lys	Thr	Ser
			260					265					270		
Val	Ala	Cys	Ile	Met	Tyr	Thr	Val	Val	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Phe	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Thr	Met	Lys	Lys	Phe
	290					295					300				
Ile	Ser	Lys	Val	Ala	Ser	Leu									
305					310										

<210> 2589  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2589

Met	Ser	Ser	Phe	Asn	Thr	Thr	Leu	Lys	Gly	Gly	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	Gln	Leu	Glu	His	Ile	Phe	Phe	Val	Phe	Ile	Ser
		20						25					30		
Met	Phe	Tyr	Ile	Leu	Thr	Ile	Phe	Gly	Asn	Phe	Thr	Ile	Ile	Thr	Ile
		35					40					45			
Ser	Arg	Met	Asp	Gln	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Asn
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Asn	Thr	Ser	Ile	Val	Pro	Gln
65					70					75				80	
Leu	Leu	Val	Asn	Ile	Ser	Gly	Ile	Asp	Lys	Thr	Met	Ser	Tyr	Ala	Gly
			85						90					95	
Cys	Met	Thr	Gln	Phe	Phe	Ile	Val	Leu	Leu	Gly	Gly	Thr	Glu	Cys	
			100					105					110		
Met	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Val	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	His	Pro	Leu	Leu	Cys	His	Ala	Leu
	130					135					140				
Ala	Ile	Ser	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Thr	Gln	Thr
145					150					155					160
Ser	Leu	Ile	Met	Thr	Ile	Pro	Leu	Cys	Gly	His	His	Leu	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Met	Leu	Val	Leu	Leu	Lys	Leu	Ala	Cys	Glu	Asp	Thr	Val
			180					185					190		
Gly	Thr	Glu	Ala	Asn	Leu	Phe	Val	Ala	Gly	Ala	Ile	Ile	Leu	Val	Cys
		195					200					205			
Pro	Val	Ala	Leu	Ile	Leu	Gly	Thr	Tyr	Ala	His	Ile	Ala	His	Ala	Val
	210					215					220				
Leu	Lys	Ile	Lys	Ser	Arg	Ser	Gly	Arg	Arg	Lys	Ala	Leu	Gly	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Thr	Gly	Val	Phe	Leu	Phe	Tyr	Gly	Ser	Ala	Met	Tyr
			245						250					255	
Met	Tyr	Leu	Gln	Pro	Val	His	Val	Tyr	Ser	Gly	Ser	Glu	Gly	Lys	Phe
			260					265					270		
Ala	Ala	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Met	Met	Asn	Pro	Ile	Tyr
		275					280					285			
Thr	Leu	Lys	Asn	Lys	Asn	Val	Lys	Gly	Ala	Leu	Cys	Lys	Val	Leu	Gly
	290					295					300				
Arg	Asp	Thr	Ser	Thr	Thr										
305					310										

<210> 2590

<211> 316

<212> PRT

<213> Mus musculus

<400> 2590

Met	Ala	Val	Met	Leu	Gly	Leu	Asn	Tyr	Thr	Phe	Val	Ser	Glu	Phe	Ile
1				5					10					15	
Leu	Ile	Gly	Phe	Ser	Thr	Phe	Pro	His	Leu	Gln	Leu	Met	Phe	Phe	Leu
		20						25					30		
Leu	Phe	Leu	Leu	Met	Tyr	Leu	Phe	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile
		35					40					45			
Met	Thr	Thr	Ile	Trp	Ser	Glu	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Cys	Ala	Leu	Ser	Ile	Ser	Glu	Ile	Phe	Tyr	Thr	Phe	Ala	Ile
65					70					75					80

Ile	Pro	Arg	Met	Leu	Ala	Asp	Leu	Leu	Thr	Thr	Leu	His	Ser	Ile	Ala
				85					90					95	
Phe	Leu	Ala	Cys	Ala	Ser	Gln	Met	Phe	Phe	Ser	Phe	Thr	Phe	Gly	Phe
			100					105						110	
Thr	His	Ser	Phe	Leu	Leu	Thr	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala
		115						120					125		
Ile	Cys	His	Pro	Leu	Arg	Tyr	Asn	Val	Leu	Met	Ser	Pro	Arg	Gly	Cys
	130					135					140				
Ala	Cys	Leu	Val	Ala	Trp	Ser	Trp	Val	Gly	Gly	Ser	Phe	Met	Gly	Thr
145					150					155					160
Val	Val	Thr	Thr	Ala	Ile	Phe	Asn	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Glu
				165					170					175	
Ile	His	His	Phe	Thr	Cys	His	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys
			180					185						190	
Gly	Glu	Asn	Val	Leu	Glu	Val	Ala	Lys	Gly	Val	Glu	Ile	Val	Cys	Ile
		195					200					205			
Thr	Ala	Leu	Leu	Gly	Cys	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Phe
	210					215						220			
Ile	Val	Val	Thr	Ile	Leu	Lys	Ile	Pro	Ser	Ala	Glu	Gly	Arg	His	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Val	His	Tyr
				245						250				255	
Gly	Phe	Ala	Ser	Val	Ile	Tyr	Leu	Lys	Pro	Lys	Gly	Pro	Lys	Ser	Leu
			260					265					270		
Glu	Gly	Asp	Thr	Leu	Met	Gly	Ile	Thr	Tyr	Thr	Val	Leu	Thr	Pro	Phe
		275					280					285			
Leu	Ser	Pro	Ile	Ile	Phe	Ser	Leu	Arg	Asn	Lys	Glu	Leu	Lys	Asn	Ala
	290					295					300				
Met	Glu	Glu	Ser	Phe	Pro	Gln	Gln	Ile	Ile	Ser	Thr				
305					310					315					

<210> 2591

<211> 323

<212> PRT

<213> Mus musculus

<400> 2591

Met	Leu	His	Val	Asn	Ile	Thr	Asn	Thr	Ile	Phe	Ser	Thr	Phe	Leu	Val
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Val	Tyr	Ile	Trp	Ile	Ala	Ile	Pro
			20					25					30		
Phe	Cys	Ala	Met	Phe	Leu	Ile	Thr	Met	Val	Gly	Asn	Met	Thr	Ile	Ile
		35					40					45			
Ile	Val	Ile	Trp	His	Glu	Gln	Thr	Leu	His	Val	Pro	Met	Tyr	Leu	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ala	Ser	Ser	Asp	Leu	Gly	Leu	Ser	Leu	Phe	Thr	Phe
65					70					75					80
Pro	Thr	Leu	Leu	Arg	Ile	Phe	Leu	Leu	Asn	Asp	Arg	Glu	Leu	Thr	Thr
				85					90					95	
Thr	Ala	Cys	Phe	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Phe	Gln	Asp	Leu
			100					105					110		
Glu	Ser	Ala	Ile	Ile	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Ser	His	Pro	Leu	His	Tyr	His	Ser	Ile	Leu	Thr	Asp	Thr	Val	Ile	Ala
	130					135					140				
Lys	Ile	Gly	Leu	Ala	Ile	Val	Val	Arg	Thr	Leu	Thr	Val	Gln	Val	Pro
145					150						155				160
Leu	Pro	Ile	Leu	Leu	Lys	Arg	Leu	Tyr	Phe	Cys	His	Ser	Asn	Val	Leu

				165					170					175			
Ser	His	Ser	Tyr	Cys	Leu	His	Pro	Asp	Ile	Ile	Lys	Leu	Ser	Cys	Ser		
			180					185					190				
Ser	Thr	Thr	Val	Asn	Ser	Ile	Phe	Gly	Leu	Phe	Val	Val	Leu	Ser	Thr		
		195					200					205					
Met	Gly	Leu	Asp	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Leu	Ile	Leu		
	210					215					220						
Lys	Thr	Val	Leu	Asn	Met	Ala	Ser	His	Ser	Gly	Arg	Leu	Lys	Ala	Leu		
225					230					235						240	
Asn	Thr	Cys	Ile	Ser	His	Leu	Cys	Ala	Val	Val	Leu	Phe	Phe	Thr	Pro		
				245					250					255			
Met	Ile	Cys	Leu	Ser	Met	Leu	His	Arg	Phe	Gly	Pro	Arg	Leu	Pro	Ser		
			260					265					270				
His	Val	Tyr	Val	Thr	Leu	Ala	Asn	Met	His	Phe	Leu	Ile	Pro	Pro	Val		
		275					280					285					
Met	Asn	Pro	Ile	Val	Tyr	Val	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Lys		
	290					295					300						
Ile	Gln	Lys	Leu	Phe	Ile	Arg	Lys	Ala	Thr	Lys	Lys	Ala	Gln	Ala	Ala		
305					310					315					320		
Ser	Ile	Thr															

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<211> 300

<212> PRT

<213> Mus musculus

<400> 2592

Met	Glu	Lys	Thr	Asn	His	Ser	Leu	Thr	Thr	Gln	Phe	Ile	Leu	Val	Gly		
1				5					10					15			
Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Thr	Pro	Leu	Phe	Leu	Leu	Phe	Ser		
			20					25					30				
Val	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val	Ala	Val		
		35					40					45					
Ile	Tyr	Leu	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly		
	50					55					60						
Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr	Pro	Lys		
65					70					75					80		
Ile	Leu	Glu	Asn	Phe	Ser	Val	Asp	Arg	Arg	Ile	Ser	Leu	Tyr	Glu			
			85					90					95				
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Ala	Asp	Cys		
			100					105					110				
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn		
		115					120					125					
Pro	Leu	Gln	Tyr	His	Ser	Met	Met	Ser	Lys	Lys	Leu	Ser	Ile	Gln	Met		
	130					135						140					
Ser	Ile	Gly	Thr	Phe	Ile	Thr	Ser	Asn	Leu	His	Ser	Leu	Ile	His	Val		
145					150					155					160		
Gly	Cys	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Lys	Ser	Asn	Arg	Ile	Asp	His		
				165					170					175			
Phe	Phe	Cys	Asp	Ile	Leu	Pro	Leu	Tyr	Arg	Leu	Ser	Cys	Thr	Asp	Pro		
			180					185					190				
Phe	Ile	Asn	Glu	Leu	Met	Ile	Tyr	Ile	Phe	Ser	Met	Pro	Ile	Gln	Val		
		195					200					205					
Phe	Thr	Ile	Thr	Thr	Val	Leu	Val	Ser	Tyr	Phe	Cys	Ile	Leu	Leu	Thr		
	210					215					220						
Ile	Phe	Lys	Met	Lys	Ser	Lys	Asp	Gly	Arg	Gly	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		

Cys	Ala	Ser	His	Phe	Phe	Ser	Val	Ser	Ile	Phe	Tyr	Ala	Cys	Leu	Leu
				245					250					255	
Met	Tyr	Ile	Arg	Pro	Phe	Asp	Asp	Ser	Asn	Lys	Asp	Ile	Pro	Val	Ala
			260					265					270		
Ile	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser
		275					280					285			
Leu	Arg	Asn	Thr	Glu	Val	Val	Asn	Ala	Leu	Arg	Lys				
	290					295					300				

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 <212> PRT  
 <213> Mus musculus

<400> 2593  
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 1 5 10

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 <212> PRT  
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<400> 2594  
 Phe Ser Thr Cys Ser Ser His  
 1 5

<210> 2595  
 <211> 6  
 <212> PRT  
 <213> Mus musculus

<400> 2595  
 Met Ala Tyr Asp Arg Tyr  
 1 5

<210> 2596  
 <211> 6  
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 <213> Mus musculus

<400> 2596  
 Met Ala Phe Asp Arg Tyr  
 1 5